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RESULT 83
ACC45158/c
ID ACC451
XX ACC451
XX ACC451
XX ACC451
XX Inman
DE Human
XX Human;
KW Human;
KW antise
KW neurol
KW phosph
XX Homo s
OS Synthe
FT modifi
FT modi
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Best Local Similarity
Matches 20; Conserv
                                                                                                              New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-11ke apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           useful as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome 17p13. The present sequence represents a human NAC chimeric phosphorothicate antisense oligonucleotide, which is given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                Bennett
                                                                                                                                                                                                                                                                                                                                                                                                           19-SEP-2001; 2001US-00956712
                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-SEP-2002; 2002WO-US029664.
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                                                           Exampel 15; Page 75; 147pp; English.
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                                                                                                                                                                                                                                                                                          Freier SM;
                                                                                                                                                                                                                                                                                                                                                   PHARM INC
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1. .20
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/mod base= OTHER
/mote= "2'-O-methoxyethyl (2'-MOE) gapmer"
16. 20
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1. .5
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100.0%; Pre
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_s "2'-O-methoxyethyl (2'-MOE) gapmer"
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Pred. No.
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1.9e+02;
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The present invention describes a compound (I) 8-50 nucleobases in length

19-SEP-2002; 2002WO-US029664.

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RESULT 84
ACC45170/c
ID ACC45170;
XX
ACC ACC45170;
XX
ACC ACC45170;
XX
DE Human NAC chimeric pl
XX
DE Human NAC chimeric pl
XX
DE Human i cytostatic; nn
KM antisense therapy; Ni
KM neurological disease
KM phosphorothioate; ss
XX
OS Synthetic.
XX
FH Key
FT modified_base 1...
PT // not.
PD 27-MAR-2003.
XX
PF 19-SEP-2002; 2002WO--
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                       /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                     /mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOB) gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                             /note=
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/mod_base= OTHER
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100.0%; Pred. No.
                                                                                                                                                                                           "2'-O-methoxyethyl (2'-MOB) gapmer"
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                                                                                                                                                                                                                                                                                                                                                                                                          phosphorothioate backbone"
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RESULT 85
ACC45172/c
ID ACC45172;
XX
ACC ACC45172;
XX
DT 16-JUN-2003 (first
XX
DE Human NAC chimeric p
XX
DE Human NAC chimeric p
XX
M Human; cytostatic; n
XM entisense therapy; N
XM neurological disease
XM neurological disease
XM neurological disease
XM phosphorothicate; se
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key
FT modified_base 1.cc;
FT modified_base 1.tc;
FT /moo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                             Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protesin; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                      Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:32.
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                                                                                                  Location/Qualifiers
     /note= "phosphorothioate backbone"
                           /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.4%; Score 20;
100.0%; Pred. No.
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RESULT 86 ACC45179/c

ACC45179 standard; DNA; 20

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<u>,</u>

BXBXBXB

ACC45179

16-JUN-2003

(first entry)

Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:39

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                                                                                                                                                                                          CThe present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and CC inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (1) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with CC with NAC comprising administering (I) to the animal so that expression of CC with NAC comprising administering (I) to the animal so that expression of CC antisense compounds (I) are useful for modulating the expression of CC antisense compounds (I) are useful for modulating the expression of CC antisense compounds (I) are useful for modulating the expression of CC and for treating a disease or condition associated with expression of CC and for treating a disease or condition associated with expression of CC and for treating a disease or condition associated with expression of CC cand for treating from aberrant apoptosis. The compounds are also CC cuseful as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or CC compounds protein (DEPCAP). NAC is located on human chromosome CC 17913. The present sequence represents a human NAC chimeric CC phosphorothioate antisense oligonucleotide, which is given in the CCC exemplification of the present invention
                                                                            Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                          Sequence 20
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                   2679 CCACTGCTTGTACGAGACTC 2698
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20
                                                                                                                                                            BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
                                                                            Conservative
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/*tag= b
/*tag= b
/mod_base= OTHER
/mote= "2'-O-methoxyethyl (2'-MOE) gapmer"
/note= "2'-O-methoxyethyl (2'-MOE) / MOE
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                                                                                               100.0%;
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                                                                                                 Score 20; Pred. No.
                                                                              0; Mismatches
                                                                                                                      DB 1;
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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound compound the profifically hybridises with the nucleic acid molecule encoding NAC and compound specifically hybridises with the compound specifically hybridises with the compound specifically hybridises with the state an 8-nucleobase portion of an active site on a nucleic acid compound specifically hybridises with the compound specifically hybridises with the compound specifically hybridises with the compound of the expression of the state of the expression of the compound of the compound of the expression of the compound of the compound of the expression of the compound of the compound of the expression of the compound of the compound of the expression of the compound of the compound of the expression of the compound of the expression of the expression of the compound of the expression of the expression of the compound of the expression of the expression of the compound of the expression of the compound of the expression of the compound of the expression of the present expression associated with expression of the expression of the present sand kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflament-forming the present sequence represents a human NAC chimeric compounds antisense oligonucleotide, which is given in the expression of the present invention
   Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense compounds, useful for modulating the expression of Ni for treating a disease or condition associated with the expression NAC, e.g. hyperproliferative disease or neurological disease.
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Synthetic.
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                                                                              Sequence 20
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/note= "2'-O-methoxyethyl
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/note= "2'-0-methoxyethyl (2'-MOE) gapmer"
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     Score 20; DB; Pred. No. 1.9
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Conservative

Indels

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Gaps

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RESULT 87
ACC45181/c
ID ACC451
XX ACC451
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XX Human;
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                     The present invention describes a compound (1) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (I); and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and antiinflammatory activities, and can be used in antisense therapy. The antisense compounds (I) are useful for modulating the expression of NAC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New antisense compounds, useful for modulating the expression of NAC for treating a disease or condition associated with the expression of
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/mod_base= OTHER
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      condition associated with
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Claim 3; Page 75; 147pp; English
                                                   New antisense compounds, useful for modulating the expression of NAC for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC.
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/mod_base= OTHER
/mote= "2'-O-methoxyethyl (2'-MOE)
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/mod_base= OTHER
/mote= "2'.-O-methoxyethyl (2'.-MOE)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gapmer"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      complete encoding NAC. Also described: (1) a composition comprising (1) cand a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC (1); and (3) treating an animal having a disease or condition associated (1) and (3) treating an animal having a disease or condition associated (CC with NAC comprising administering (1) to the animal so that expression of CC NAC is inhibited. (1) has cytostatic, noctropic, neuroprotective and CC antiinflammatory activities, and can be used in antisense therapy. The CC antisense compounds (1) are useful for modulating the expression of NAC, and for treating a disease or condition associated with expression of CC NAC, e.g. hyperproliferative disease, neurological disease, or a disease or disorder arising from aberrant apoptosis. The compounds are also CC e.g. hyperproliferative disease, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or CC cond prophylaxis, e.g. to prevent or delay infection, inflammation or CC cond prophylaxis, e.g. to prevent or delay infection, inflammation or CC condition approach in (DEPCAP). NAC is located on human chromosome CC 17p13. The present sequence represents a human NAC chimeric CC phosphorothioate antisense oligonucleotide, which is given in the CC exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming (EEM-11ke apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (I)
                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACC45206 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                             phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human NAC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACC45206;
                                                         WO2003024988-A1
                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                       modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             chimeric
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                         /*tag=
                                                                                                                                                                                                                                                 /note=
                                                                                                                                                                                                                                                                                     /*tag=
                                                                                                                                                       16. .20
                                                                                                                                                                       /mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOE)
                                                                                                                   mod base= OTHER
                                                                                                                                                                                                                                                                       mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           phosphorothicate oligonucleotide SEQ
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                                                                                               "2'-O-methoxyethyl (2'-MOE) gapmer'
                                                                                                                                                                                                                                                   "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                           QJ
                                                                                                                                                                                                                 σ
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                                                                                                                                                                         gapmer"
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27-MAR-2003

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RESULT 90
ACC45154/c
ID ACC451
XX ACC451
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XX IG-JUN
XX Human;
XX Hu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound Specifically hybridises with the nucleic acid molecule encoding NAC and cinhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (I) a composition comprising (I) cc and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (C); and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and can tissues compounds (I) are useful for modulating the expression of CC antisfermatory activities, and can be used in antisense therapy. The CC antisense compounds (I) are useful for modulating the expression of CC and for treating a disease or condition associated with expression of CC (and for treating the appropriate and kits, or for diagnostics, therapeutics correlated as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or CC tumour formation. NAC is also known as a death effector filament-forming CC phosphorothicate antisense oligonucleotide, which is given in the component of the present sequence represents a human NAC chimeric phosphorothicate antisense oligonucleotide, which is given in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                   Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                       antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACC45154;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACC45154 standard; DNA; 20 BP
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                            modified_base
                                                                                                                                                                                                                                                                                                                                                                               Human; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              exemplification of the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                               nootropic; neuroprotective; antiinflammatory;
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Pred. No.
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1.9e+02;
hes 0; Indels
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(first entry)

DNA; 20

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RESULT 91
ACC45155/c
ID ACC45155 standard; D
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AC ACC45155;
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DT 16-JUN-2003 (first
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                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 3; Page 75; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compounds, useful for modulating the expression of NAC for treating a disease or condition associated with the expression of
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                                                                                                                                                                                                                                                                   20 GGGTTCTGAAAGCCCATTCC 1
                                                                                                                                                                                                                                                                                                                      61 GGGTTCTGAAAGCCCATTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hyperproliferative disease or neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP; 5 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Freier
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16. .20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 20;
Pred. No.
                                                                                                                                                                                                                                                                                                                                         80
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
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Human

NAC

chimeric phosphorothioate oligonucleotide SEQ

ID NO:15

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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and CC inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (I) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC (I); and (3) treating an animal having a disease or condition associated CC with NAC comprising an animal having a disease or condition associated CC with NAC comprising an animal having a disease or condition associated CC with NAC comprising administering (I) to the animal so that expression of CC antiinflammatory activities, and can be used in antiense therapy. The CC antisense compounds (I) are useful for modulating the expression of CC antisense compounds (I) are useful for modulating the expression of CC (NAC, e.g. hyperproliferative disease, or addisease, or a disease or condition associated with expression of CC useful as research reagents and kits, or for diagnostics, therapputics CC and prophylaxis, e.g. to prevent or delay infection, inflammation or CC tumour formation. NAC is also known as a death effector filament-forming CC 2011. The present sequence represents a human NAC chimeric phosphorothioate antisense oligonucleotide, which is given in the CC exemplification of the present sequence represents a human NAC chimeric compounds and so that expression of CC exemplification of the present invention
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                       The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (I); and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and animal contaction of the composition o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense compounds, useful for modulating the expression of NAC for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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antisense compounds (I) are useful for modulating the expression of NAC.

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New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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                                                                                                           PHARM INC
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/mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOE) gapmar"
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                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                 *tag=
                                                                                                                                                                                                                                                                                                                                                           note= "phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                    mod_base= OTHER
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100.0%; Pred. No. .
179 0; Mismatches
                                                                                                                                                                                                                                                                                                        "2'-O-methoxyethyl (2'-MOE)
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RESULT 94
ACC45198/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cc molecule encoding NAC. Also described: (1) a composition comprising (1) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with CC (1); and (3) treating an animal having a disease or condition associated CC with NAC comprising administering (1) to the animal so that expression of CNAC is inhibited. (1) has cytostatic, noutropic, neuroprotective and cantinflammatory activities, and can be used in antisense therapy. The CC antisense compounds (1) are useful for modulating the expression of NAC, and for treating a disease or condition associated with expression of CNAC, e.g. hyperproliferative disease, neurological disease, or a disease or disorder axising from aberrant apoptosis. The compounds are also cuseful as research reagents and kits, or for disgnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome C phosphorothioaste antisense of iconnector a human NAC chimeric compounds antisense of iconnector a human NAC chimeric
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Best Local S
Matches 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apop death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACC45198 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                       modified_base
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                                                                                                                                                                                         modified_base
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/note= "2'-O-methoxyethyl (2'-MOE) gapmer"
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/note= "phosphorothioate backbone"
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1.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease; apoptosis;
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RESULT 95
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and CC inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid comolecule encoding NAC. Also described: (1) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with CC (I), and (3) treating an animal having a disease or condition associated comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and CC antisense compounds (I) are useful for modulating the expression of NAC, CC and for treating a disease or condition associated with expression of NAC, e.g. hyperproliferative disease, neurological disease, or a disease or diseorder arising from abarrant apoptosis. The compounds are also CC useful as research reagents and kits, or for diagnostics, therapeutics CC and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CC CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome crompounds a remnence represents a human NAC chimeric
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                                                                                                                                                                                                antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACC45202 standard;
                                                                   Synthetic.
                                                                                                    Homo sapiens
                                                                                                                                                                       phosphorothioate;
                                                                                                                                                                                                                                                                                                               Human; cytostatic; nootropic; neuroprotective; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                   Human NAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-JUN-2003
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   Location/Qualifiers
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RESULT 96 ACC45159/c

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ACC45159 standard; DNA; 20 BP

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ACC45159;

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                                                                                                                                                                                                                                                                                                                                                   targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (I); and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and antisinflammatory activities, and can be used in antisense therapy. The antisense compounds (I) are useful for modulating the expression of NAC,
                                                                                                                                        Sequence 20
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                                                                                                                                                                           exemplification
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                                                                                     Similarity
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                                                                                                                                                                           of the present invention
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ative 0; Mismatci
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "2'-O-methoxyethyl (2'-MOE) gapmer"
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                                                                     Mismatches
                                                                     1.9e+02;
hes 0;
                                                                                                      DB 1; Length 20
                                                                        Indels
                                                                      0,
                                                                      Gaps
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or

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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and CC inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (I) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC (I), and (3) treating an animal having a disease or condition associated CC (I), and (3) treating an animal having a disease or condition associated CC (II), and (II) has cytostatic, nootropic, neuroprotective and CC antinflammatory activities, and can be used in antisense therapy. The CC antisense compounds (I) are useful for modulating the expression of CC (II), and converse or condition associated with expression of CC (II), and converse or condition associated with expression of CC (II), and converse or condition associated with expression of CC (II), and converse or condition associated with expression of CC (II), and (II) are useful for modulating the expression of CC (II), and (II) are useful for modulating the expression of CC (II), and (II) are useful for modulating the expression of CC (II), and (II) are useful for modulating the expression of CC (II), and (II), and (II) are useful for modulating the expression of CC (II), and (II), and (II), and (II) are useful for modulating the expression of CC (II), and (II), an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 3; Page 75; 147pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-SEP-2001; 2001US-00956712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19-SEP-2002; 2002WO-US029664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003024988-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antisense compounds, useful for modulating the expression of NAC treating a disease or condition associated with the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2003-354583/33.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Freier SM;
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/*tag=
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e= "2'-O-methoxyethyl (2'-MOE)
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= "2'-O-methoxyethyl (2'-MOE) gapmer"
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Sequence 20 BP; 6 A; 4 C; 8

of the

present invention

G; 2 T; 0 U; 0 Other;

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RESULT 97
ACC451.7/c
ID ACC451.7/c
ID ACC451.7/c
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ACC
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Matches 20
The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (I) a composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (I); and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                          New antisense compounds, useful for modulating the expression of NAC for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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                                                                                                                                                                                                                                                                                                         Claim 3; Page 75; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS PHARM INC
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/mod_ba
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100.0%; Pr/
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.e= "2'-O-methoxyethyl (2'-MOE)
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== "2'-O-methoxyethyl (2'-MOE) gapmer"
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1.9e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and antiinflammatory activities, and can be used in antisense therapy. The antisense compounds (I) are useful for modulating the expression of NAC, and for treating a disease or condition associated with expression of NAC, e.g. hyperproliferative disease, neurological disease, or a disease or disorder arising from aberrant apoptosis. The compounds are also useful as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome 17pl3. The present sequence represents a human NAC chimeric phosphorothicate antisense oligonucleotide, which is given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
New antisense compounds, useful for modulating the expression of NAC
                           WPI; 2003-354583/33
                                                                                                                                                                                                 WO2003024988-A1.
                                                                                                                                                                                                                                                                 modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC45175;
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                                                       Bennett CF, Freier SM,
                                                                                                             19-SEP-2001; 2001US-00956712
                                                                                                                                         19-SEP-2002; 2002WO-US029664.
                                                                                                                                                                      27-MAR-2003.
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                                                                                   PHARM INC.
                                                                                                                                                                                                                                                                  /mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOE)
16. .20
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/note= "2'-O-methoxyethyl (2'-MOE) gapmer"
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100.0%; Pr
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Pred. No. 1.9e+
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                                                                                                                                                                                                                                                                                                                                         backbone"
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                                                                                                                                                                                                                                                                                 gapmer"
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for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
                                                                                                                  147pp; English.
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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and CC inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (1) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with CC (I); and (3) treating an animal having a disease or condition associated CC with NAC comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and CC antisense compounds (I) are useful for modulating the expression of NAC, CC and for treating a disease or condition associated with expression of CC useful as research reagents and kits, or for diagnostics, therapeutics CC and prophylaxis, e.g. to prevent or delay infection, inflammation or cumour formation. NAC is also known as a death effector filament-forming CC CDA-like apoptosis protein (DEFCAP). NAC is located on human chromosome CC phosphorothioate antisense oligonucleotide, which is given in the ccc ccc exemplification of the present invention

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RESULT 99
ACC45188/c
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                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                               ACC45188 standard; DNA; 20 BP
                                                                                                                                                                                                                                   Sequence 20
                                                                                                                                                                                                    2929 GTCCTCAAGGTCACCAGAAA 2948
                                                                                                                                                                                          20
                                                                                                                                                                                                             20;
                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                              ilarity 100.0%; Pred. No. 1.9
Conservative 0; Mismatches
                                                                                                                                                                                                                                   BP; 3 A; 4 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                         0.4%;
                                                                                                                                                                                                                   Score 20;
Pred. No.
                                                                                                                                                                                                                        DB 1; Length 20
                                                                                                                                                                                                                    1.9e+02;
                                                                                                                                                                                                               0
                                                                                                                                                                                                              Gaps
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0

Key modified_base

Location/Qualifiers

Synthetic.

Homo sapiens. phosphorothicate;

Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DBFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;

Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:48.

16-JUN-2003

(first entry)

modified_base

/note= "

base= OTHER e= "2'-O-methoxyethyl

(2'-MOE)

gapmer"

σ

note= "2'-O-methoxyethyl (2'-MOE) gapmer"

base= OTHER

modified_base

note=

"phosphorothioate backbone"

mod base= OTHER *tag= a

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RESULT 100
ACC45165/c
ID ACC451
XX
AC ACC451
XX
DT 16-JUN
XX
DE Human
XX
DE Human
XX
Human
XX
KW Human
KW Human
KW Human
KW Human
KW Human
XX
KW INGUE
KW death
KW neurol
KW phosph
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OS Homo E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                          Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                        ACC45165
                                                                                                                                                                                                                                                                                            ACC45165 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 7
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  Homo sapiens
Synthetic.
                                                                                                                                                                         Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of
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                                                                                                                                                                                                                    16-JUN-2003
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                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                            DNA;
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100.0%; Pr
                                                                                                                                                                                                                                                                                            20 BP
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; Pred. No. 1.9e+0
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                                                                                                                                           cc specifically hybridises with the nucleic acid molecule encoding NAC and inhibite the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (1) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with (2) and (3) treating an animal having a disease or condition associated with NAC comprising administering (1) to the animal so that expression of NAC is inhibited. (1) has cytostatic, notropic, neuroprotective and cantinfilammatory activities, and can be used in antisense therapy. The antisense compounds (1) are useful for modulating the expression of NAC, and for treating a disease or condition associated with expression of NAC, and for treating a disease or condition associated with expression of NAC, and for treating a disease, neurological disease, or a disease or disorder arising from aberrant apoptosis. The compounds are also useful as research respents and kits, or for disgnostics, therapeutics or and normalish or to prevent or delay infeation.
                                                                     Matches
                                                                                      Query Match
Best Local (
                                                                                                                                                                                            and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome 17p13. The present sequence represents a human NAC chimeric phosphorothicate antisense oligonuclectide, which is given in the
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                                                                                                                                         Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a compound (I) 8-50 nucleobases in length targeted to a nucleic acid molecule encoding NAC, where the compound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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                961 CGCTGGAGAGAAATCTCTGC 980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3; Page 75; 147pp;
                                                                   l Similarity
20; Conserv
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                                                                     Conservative
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                                                                                                                                                                             of the present
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/mod_b
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note= "2'-O-methoxyethyl (2'-MOB) gapmer"
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100.0%; Pred. No.
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                                                                                                                                                                                 invention
                                                                     Mismatches
                                                                                      DB 1; I
                                                                                                       Length 20
                                                                     Indels
                                                                     0,
                                                                     Gaps
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RESULT 101 ACC45177/c ID ACC45177 standard; DNA; 20 BP.

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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (1) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with CC (I), and (3) treating an animal having a disease or condition associated CC with NAC comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, noctropic, neuroprotective and CC antisense compounds (I) are useful for modulating the expression of NAC and for treating a disease or condition associated with expression of CC NAC, e.g. hyperproliferative disease, neurological disease, or a disease CC or disorder arising from aberrant apoptosis. The compounds are also CC useful as research reagents and kits, or for diagnostics, therapeutics can prophylaxis, e.g. to prevent or delay infection, inflammation or CC control or compact of the same or condition as a death effector filament-forming CC CED4-like apoptosis protein (DEFCAP). NAC is located on human chromosome creaments a human NAC chiepric
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17p13. The present sequence represents a human NAC chimeric phosphorothioate antisense oligonucleotide, which is given exemplification of the present invention
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16. .20
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== "2'-O-methoxyethyl (2'-MOE)
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>= "2'-O-methoxyethyl (2'-MOE) gapmer"
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ACC45186/c
ID ACC451
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ACC451
AC ACC451
AC ACC451
AC ACC451
DT 16-JUN
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Human;
KW Human;
KW Antise
KW dantise
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FT modifi
FT T modifi
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Best Local S
Matches 20
                            targeted to a nucleic acid molecule encoding NAC, where the compound specifically hybridises with the nucleic acid molecule encoding NAC and inhibits the expression of NAC. The compound specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding NAC. Also described: (1) a composition comprising (I) and a pharmaceutical carrier or diluent; (2) inhibiting the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense therapy; NAC; DEFCAP; hyperproliferative disease; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour format
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACC45186
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACC45186;
                                                                                                                                                                                                                                                                               New antisense compounds, useful for modulating the expression of NA for treating a disease or condition associated with the expression NAC, e.g. hyperproliferative disease or neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2003024988-A1
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                                                                                                                                                                                The present invention describes a compound (I) 8-50 nucleobases in length
                                                                                                                                                                                                                                Example 15; Page 75; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-SEP-2001; 2001US-00956712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-SEP-2002; 2002WO-US029664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ISIS-) ISIS PHARM INC
     a pharmaceutical carrier or diluent; in cells or tissues comprising contact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3177
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Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                        Freier
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/note= "2'-O-met
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -O-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
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; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (2'-MOE)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gapmer'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               disease; apoptosis;
       the expres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO:46.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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contacting

the

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RESULT 103
ACC45199/c
ID ACC451
XX ACC451
XX ACC451
XX Human;
ACC451
XX Human;
XX Homo & Synthe
XX Homo & Synthe
YT modifi
FT 
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Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
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Synthetic.
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      WPI; 2003-354583/33
                                                                 Bennett CF, Freier SM;
                                                                                                                                                                                         19-SEP-2001; 2001US-00956712
                                                                                                                                                                                                                                                                                                                                                                                   WO2003024988-A1.
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                                                                                                                                                                                                                                                       19-SEP-2002; 2002WO-US029664.
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                                                                                                                               PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /note= "phosphorothioate backbone"
1. .5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOE) gapmer"
16. .20
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100.0%; Pr/
0;
                                                                                                                                                                                                                                                                                                                                                                                                                                           "2'-O-methoxyethyl (2'-MOE) gapmer"
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Pred. No.
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New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
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Example 15; Page 76; 147pp; English.

The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the nucleic acid molecule encoding NAC and C inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (I) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC (I); and (3) treating an animal having a disease or condition associated CC (I); and (3) treating an animal having a disease or condition associated CC (I); and (I) to the animal so that expression of CC (I); and for treating a disease or condition associated CC (I); and for treating a disease or condition and the expression of CC (I); and for treating a disease or condition and the expression of CC (I); and for treating a disease or condition associated with expression of CC (I); and for treating a disease or condition associated with expression of CC (I); and (I); are useful for modulating the expression of CC (I); and for treating a disease, neurological disease, or a disease or discrete and the expression of CC (I); and for treating a disease, neurological disease, or a disease CC (I); and for treating a disease or condition associated with expression of CC (I); and for treating a from aberrant apoptosis. The compounds are also CC (I); and for the expression of CC (I); and for the expression of CC (I); and for treating a disease of the expression of CC (I); and the expression of CC (I); and for the expression of CC (I); and the expression o Sequence 20 BP; 6 A; 9 C; 2 G; 3 T; 0 U; 0 Other;

Matches 20; Query Match Best Local Similarity Conservative 0.4%; Score 20; DB 1; Length 20; 100.0%; Pred. No. 1.9e+02; 0, Mismatches 0 Gaps

0

밁 20 S

4575 GGTGGAGGTTGTCTTGGACA 4594

RESULT 104
ADP11640/c
ID ADP116
XX ADP1166
XX ADP116
XX IT 2-AUG
XX IT 2-AUG
XX IT AUG
XX IT AUG Taqman probe of the invention #323. 12-AUG-2004 (first entry) ADP11640 ADP11640 standard; DNA; 20 BP

transplant rejection; immune system; rheumatoid arthritis; inflammatory bowel disease; multiple sclerosis; HIV; AIDS; lupus; ss; probe.

Homo sapiens.

WO2004042346-A2

21-MAY-2004

24-APR-2003; 2003WO-US012946.

24-APR-2002; 2002US-00131831. 20-DEC-2002; 2002US-00325899.

(EXPR-) EXPRESSION DIAGNOSTICS INC.

Wohlgemuth J, Rosenberg S; Fry K, Woodward R, Ly N, Prentice Ç Morrie M;

WPI; 2004-400724/37

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RESULT 105
ADP10980
ID ADP109
XX ADP109
XX Set 1
XX Uransp
XX Uran
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                                                                                                                                                                                                                   Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transplant rejection; immune system; rheumatoid arthritis; inflammatory bowel disease; multiple sclerosis; HIV; AIDS;
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20-DEC-2002;
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Sequence 20
BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;
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Matches Query Match Best Local (20; Similarity 0.4%; ilarity 100.0%; Conservative (0 Score 20; Pred. No. Mismatches DB 1; L Length Indels 0 Сарв 0

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         GCCTTTGCTGGGCATTATGT 4964
GCCTTTGCTGGGCATTATGT 20
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ADP12136;
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12-AUG-2004
                               standard;
(first
                               DNA;
entry)
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transplant rejection; immune inflammatory bowel disease; immune system; rheumatoid sease; multiple sclerosis; arthritis; lupus; HIV; AIDS; ss; pr ss; primer.

PCR primer for marker probe #242

Set 2 right

sapiens.

WO2004042346-A2

21-MAY-2004.

24-APR-2003; 2003WO-US012946

(EXPR-) EXPRESSION DIAGNOSTICS INC

24-APR-2002; 2002US-00131831. 20-DEC-2002; 2002US-00325899.

Rosenberg Wohlgemuth s; Fry K, Woodward R, ź z Prentice J, Morris

WPI; 2004-400724/37.

Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of

Claim 58; SEQ ID NO 2145; 1762pp; English.

RESULT 106
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ADP12136/6
ADP12136/6
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The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual

Claim 58; SEQ ID NO 989; 1762pp; English

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RESULT 107
ADP1131/c
ID ADP113
XX ADP113
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XX Uransp
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diagnosing or monitoring transplant rejection, e.g. heart, kidney, lipancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level
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20-DEC-2002; 2002US-00325899.
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                                                                                                             5 G; 4 T; 0 U; 0 Other;
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1.9e+02;
     DB 1; Length 20;
1.9e+02;
hes 0; Indels
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RESULT 108
ADP11888
ID ADP118
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XX LTANG
DT 12-AUG
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XX HOMO 8
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                                                                                                                                                                                                                                                                                                 The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lungs, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a primer for a 50 mer oligonucleotide marker for diagnosis and monitoring of allograft rejection and other disorders.
                                                                                                                                                  Query Match
Best Local &
                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                             Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;
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20-DEC-2002; 2002US-00325899.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 58; SEQ ID NO 1897; 1762pp; English
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                                                          4825 AGCCCTTGACCCTTGAGTCC 4844
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                                                                                                                     Conservative
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                                                                                                                                                     Score 20; DB 1; pred. No. 1.9e+0
                                                                                                                        Mismatches
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                                                                                                                                                     1.9e+02;
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RESULT 109 ACK28659 ID ACK286

ACK28659 standard; DNA; 25

BP

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RESULT 110
AAH91641/c
ID AAH916:
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AC AAH916:
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CC Also disclosed is a method of gene expression analysis. The array is used ci in monitoring gene expression levels by hybridisation to a DNA library, co in analysis of genetic variation or in hybridisation of tag-labelled compounds. The nucleic acid probes are specifically designed for analysis computed for analysis computed for analysis computed for analysis computed for hybridising at least one or more nucleic acids to at least two or more conclude acid probes and detecting the hybridisation. The nucleic acid computes and detecting the hybridisation. The nucleic acid computes a tag sent analysis comprises monitoring gene expression levels, identifying biallelic markers or polymorphisms, or family members of a gene and a cross-species comparison. Each of the concleic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dotalot hybridisation to identify or detect the sequence or specific mutations of any gene, in mapping the 5' termini of mRNA molecules by comparison subclones containing segments of DNA that have been concluded and previously sequence. The sequence of the nucleic acid probes incorporated in the microarray. Note: The sequence containing the sequence of the sequence of the sequence of the sequence presented is one of the format for this patent can also be obtained in electronic format directly contained in the microarray.
                                                                                                                                                                      Query Match
Best Local S
Matches 21
                                AAH91641 standard; DNA; 28 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New array of nucleic acid probes, useful for Southern, Northern or dot-blot hybridization sequence or specific mutations of any gene.
   AAH91641;
                                                                                                                                                                                                                                Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention discloses a microarray comprising a plurality of nucleic acid probes including one of 2,018,500 fully defined sequences, or its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; SEQ ID NO 128640; 9pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-MAR-2001; 2001US-0276759P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human microarray DNA oligonucleotide SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AFFY-) AFFYMETRIX INC
                                                                                                                                                                                    Local Similarity
                                                                                                                                        3444 GGAGCAGGAGAAACCTCAGCTGC 3466
                                                                                                                                                                      21;
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                                                                                                         GGAGCAGGAGAATCCTCAGCTAC 25
                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                 BP; 8 A; 6 C; 7 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                    0.4%;
                                                                                                                                                                      <u>.</u>
                                                                                                                                                                                    Score 19.8; DB 1
Pred. No. 2.1e+02
                                                                                                                                                                        Mismatches
                                                                                                                                                                                                      DB 1;
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                                                                                                                                                                                                   Length 25;
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                                                                                                                                                                    0,
                                                                                                                                                                      Gaps
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 RESULT 111
AAA57855
ID AAA578
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AC AAA578
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DT 11-OCT
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OS Synthe
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Best Local S
Matches 21
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                                                                                                                           11-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1;
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The present invention describes a method for detecting the presence of polymorphisms associated with inflammatory bowel diseases such as ulcerative colitis and Crohn's disease. The methods can be used to detect the presence of genetic polymorphisms associated with inflammatory bowel disease and correlating their occurrence with disease states. They may be used in this way for phenotypic correlations, forensics, paternity testing, medicine and genetic analysis. The present sequence is a polymorphic site described in the exemplification of the invention
Ribozyme; catalytic RNA; analyte detection; nucleic acid substrate; in vitro selection; conformation dependent activity; allosteric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 28 BP; 3 A; 9 C; 2 G; 13 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Testing for the presence of polymorphisms associated with inflammatory bowel disease, using a hybridization assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          single nucleotide polymorphism; SNP; chromosome 19p13; paternity test; chromosome 5q31-33; forensic test; gene therapy; ds.
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                                                                                                     Deoxy-A22-tagged substrate oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-DEC-1999; 99US-0170257P.
10-APR-2000; 2000US-0196046P.
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                                                                                                                                                                                                                                                                 AAA57855 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1177 ATCAGAGAAAAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WHITEHEAD INST BIOMEDICAL RES. BLLIPSIS BIOTHERAPEUTICS CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                    ATCAGAGAGANAGAGAGAGAGA 3
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ilarity 87.5%;
Conservative
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/note= "SNP, optionally insertion or deletion at this
position"
                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lander ES,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 19.8; DB 1;
Pred. No. 2.2e+02;
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3;
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                     effector molecule;
ribozyme ligase;
     activation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 28;
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CC for the catalytic activity of the nucleic acid sequence; and contacting conditions allowing catalytic activity of nucleic acid sequences. The catalytic nucleic acid sequence will be able to convert the nucleic acid sequences. The CC catalytic nucleic acid sequence will be able to convert the nucleic acid sequences. The CC present. The nucleic acid product only if the analyte of interest is CC present. The nucleic acid catalytic product is then amplified, and a CC significant increase in the amount of product indicates the presence of the analyte in the sample. The method is useful for the qualitative or CC quantitative determination of an analyte in a sample in diagnostic CC assays. The invention describes the in vitro selection of a ribozyme CC ligase (L1; AAA57859, AAA57860) which is catalytically active only in the presence of an oligonuclectide effector (AAA57854). The L1 ribozyme CC injase was selected from a pool of RNA molecules comprising a central CC constant sequence regions (the N90 RNA pool; AAA57851). In the presence CC these effector, selection was performed using one of the tagged CC substrate molecules AAA57855-A57857. RNAs with ligase activity (i.e., those which have become ligated to the substrate molecule) were reverse CC transcribed using the effector oligo, and then PCR amplified using the effector and a DNA primer identical in sequence to the substrate used for the selection. A ribozyme ligase, L1, was selected via this procedure. L1 can only adopt its active conformation (AAA57859) in the presence of the effector oligo (analyte). In the absence of the effector, L1 adopts an catalyte conformation (AAA57859) in the presents the CC deaxy-A22-tagged substrate oligonacleotide. The dA22 tag enables catalyte products to be isolated using oligo(d7)12-18 conformation, be isolated using oligo(d7)12-18 conformat
                                                                                          Query Match
Best Local S
Matches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detecting an analyte in a sample comprises providing nucleic acid sequence which is catalytically active in presence of analyte, contacticatalytic nucleic acid with substrate and amplifying catalytic product.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method of detecting an analyte in a sample. The method comprises providing a nucleic acid sequence which is initially catalytically inactive, but which becomes catalytically active in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nathan A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            misc_binding
                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       presence of an analyte (the effector); providing a nucleic acid substrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (INTE-) INTELLIGENE LTD
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5394 AAAAAATACAAAAAAGAAAAAATGAA 5419
                                                                                                                                Similarity
                                                                                                                                                                                                                                                   28 BP;
                                                                                          Conservative
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/*tag= a

24. .28

/*tag= b

/bound_molety= "Bases 13-17 of N90 RNA pool (AAA57851)"
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                                                                                                                                                                                                                                                   A; 2 C; 1 G; 0 T; 2 U; 0 Other;
                                                                                                                           0.4%;
                                                                                              1; Mismatches
                                                                                                                                    Score 19.6; DB 1;
Pred. No. 2.3e+02;
                                                                                                                                                                     Length 28;
                                                                                              Indels
                                                                                              0;
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RESULT 112

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RESULT 113
ADA3959
ID ADA395
XX
AC ADA395
XC ADA395
XX
DT 20-NOV
XX
DE Substr
XX
XX
CEGULA
KW regula
KW regula
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                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                        Best
                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                      The present invention relates to regulatable, catalytically active nucleic acids (RCANAs) which are regulated by polypeptides. These a useful for regulating gene expression, in assays for detecting the presence of ligands, for activation of an effector of RCANA, and in therapy. The present sequence is an oligonucleotide substrate used construction of an RCANA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ellington AD, hear-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New regulatable, catalytically active nucleic acids (RCANA), useful in gene therapy (particularly for regulating gene expression), or in assays for detecting the presence of ligands or activation of an effector of
 regulatable catalytically active nucleic acid; RCANA; catalytic domain; regulation; screening; gene therapy; biological pathway regulation; regulatory element; metabolic pathway; ribozyme; ss.
                                                        Substrate RNA related oligonucleotide SEQ ID NO:25.
                                                                                  20-NOV-2003
                                                                                                             ADA39569
                                                                                                                                      ADA39569 standard; RNA; 28
                                                                                                                                                                                                                                                                                                                Sequence 28 BP; 23 A; 2 C; 1 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-122216/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JUN-2000; 2000US-0212097P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Regulatable catalytically active nucleic acid; RCANA; ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Regulatable, catalytically active nucleic acid substrate #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 75; 126pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RCANA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200196559-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TEXA ) UNIV TEXAS SYSTEM.
                                                                                                                                                                                                                                                                        Local
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                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                            Conservative
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                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hesselberth J, Iox JC, Reidel T;
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/note= "5' biotinylated"
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                                                                                                                                                                                                                                                                       80.8%;
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                                                                                                                                       BP
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                                                                                                                                                                                                                                                            Score 19.6; D
Pred. No. 2.3e
1; Mismatches
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                                                                                                                                                                                                                                                                       2.3e+02;
                                                                                                                                                                                                                                                                                     DB 1; Length 28;
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                                                                                                                                                                                                                                                             Gaps
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RESULT 114
ADQ96960
ID ADQ969
XX ADQ969
XX ADQ969
XX ADQ969
DT 23-SEP
XX RCANA;
KW RCANA;
KW indust
XX Uniden
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC product in a cell. The method comprises inserting a regulatable cotatalytically active nucleic acid (RCMA) into a gene that produces the product or regulates the production of the product in the cell, where the comprises a catalytic domain which modifies a transcript to alter its coding potential and a regulatory domain that recognises an effector contact alters the function of the catalytic domain, and contacting the cregulatory domain with an effector to regulate production of the product. CC Also described: (1) regulating a biological pathway in cell; and (2) contact approached are useful for regulating a biological pathway in cell, or complating a population of cells for a cell that produces a bioproduct. CC regulating production of a product in a cell. The RCANAs are useful as cegulating production of a product in a cell. The RCANAs are useful control the expression of genes in a metabolic pressure favouring or disfavouring production of a targeted bioproduct. CC negulatory elements to control the expression of a selective control the control of a targeted bioproduct. CC negulation are also useful for in vitro or in vivo sensing or detection, control of the present sequence represents a RNA substrate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Loc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Regulating production of a product in a cell, comprises inserting a regulatable catalytically active nucleic acid into a gene that produces the product or regulates the production of the product in the cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                     RCANA; catalytically active regulatable nucleic acid; ss; ribozyme; aptamer; effector domain; nucleic acid catalyst domain; gene therap industrial biosynthesis; bioremediation; Ribosomal L1 ligase.
                                                                                                                                                                                                                                                                23-SEP-2004
                                                                                                                                                                                                                                                                                                                                              ADQ96960 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 6; Page 76; 128pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-SEP-2001; 2001US-0324715P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-SEP-2002; 2002WO-US030458.
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                                                            US2004126882-A1
                                                                                                    Unidentified
                                                                                                                                                                                                                       Ribozyme substrate oligonucleotide S28A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotide, which is used in an example from the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5394 AAAAAATACAAAAAAAGAAAAAATGAA 5419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention describes a method for regulating production of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAAAAAAAAAAAAAAAAAAAAUGCA 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 23 A; 2 C; 1 G; 0 T; 2 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 19.6;
Pred. No. 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                            gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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24-SEP-2002; 2002US-00254568.
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20-SEP-2000; 2000US-0066870.
14-UUN-2001; 2001US-00833119.
24-SEP-2001; 2001US-0324715P.
                                                                                                                                                                                                                                                                                              15-JUN-2000; 2000US-0212097P.
                                                                                                                                                                                                                                         (RIED/)
                                                                                                                                                                                                                           SOOTER L.
DAVIDSON E.
COX J C.
RIBDEL T.
WILSON C.
CLOAD S T.
KEEPE A D.
                                                                                                                                                                                                                                                                 ELLINGTON A
HESSELBERTH
                                                                                                                                                                                                                                                          ROBERTSON M P.
                                                                                                                                                                                                                                                              THOMPSON K.
                                                                                                                                                                                                            n AD, ...
R. Cox JC,
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ox JC, Riedel T,
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                                                                                                                                                                                                                 Thompson Wilson
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                                                                                                                                                                                                                 Robertson MP,
Cload ST, Ke
                                                                                                                                                                                                                 MP, Sooter L;
Keefe AD;
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Novel regulatable, catalytically active nucleic acid comprising effector domain, and catalyst domain which comprises randomized catalytic residues and is regulated by effector that interacts with effector domain.

Example 6; SEQ ID NO 25; 78pp; English.

Cd acid catalytic domain which one or more critical catalytic restudes of the modelic catalytic domain. Also included are a nucleic acid comprising a gene, a control disperse within the gene (where the presence of an effector causes the nucleic acid to catalyte are a nucleic acid comprising a gene, a catalytic and an effector domain involving randomising at least one conclete acids in the catalytic domain involving randomising at least one nucleic acids that interact with the catalytic target of the catalytic domain, adding an effector domain of a catalytic target of the mucleic acids that interact with the catalytic target of the pecific modification and modifying the nucleic acids and isolating consisting a RCANA (involving providing a RCANA, capable of target using a RCANA, specific activity), selecting a RCANA, and detecting an activity, and the target under conditions that the catalytic activity of the mucleic acid and modifying the target using a RCANA, and detecting an activity of the mucleic acid and measuring the construct into a host cell and measuring the cell to produce to regulatory domain which are regulatory domain which are regulatory domain which are regulatory domain which are regulatory domain which construct in the cell.

Cc landytic activity of the catalytic domain of the fector is partially inhibited according to the concentration of the cell. The control is an intermedia the product is chosen from protein, enzyme, protein pharmaceutical, metabolite, drug, dye, vitamin, food additive, chemical additive, pesticide, insecticide, feed compound, and a waste product. The drug (RCANA) segment comprising an effector domain and a nucleic acid catal domain in which one or more critical catalytic residues of the nucleic The invention relates to a regulatable, catalytically active nucleic acid domain and a nucleic acid catalyst

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RESULT 115
ADP124405
ID ADP124
XX PEB
DE L1 ret
XX gene t
KW mutati
KW retrot
XX PO 9-AUC
XX US2003
XX US2
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Best Local S
Matches 21
                                                                     The invention describes a method of creating an insertional mutation in the germ line of an animal by introducing into an animal a nucleic acid molecule comprising a germ line specific promoter. The method is useful for generating a mutation in an offspring of an animal, or for isolating a nucleic acid from a genome of an offspring of an animal. The method may also be used to correct genetic defects in animals, especially humans. The nucleic acid is useful for generating mutations in a cell for assessing the frequency with which selected cells under go insertional mutagenesis for the generation of transgenic animals. This sequence represents a primer used to characterise the insertion site of the injection of the contracterise the insertion site of the contracterise the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   chosen from antibiotics, anticancer drugs, antifungals, cholesterol-lowering drugs, and immunosuppressants. The RCANA is useful for regulating a biological pathway in a cell, for screening a population of cells for a cell that produces a bioproduct, for modulating expression of a nucleic acid, in gene therapy applications, and for facilitating industrial biosynthesis and bioremediation. The present sequence is an RNA substrate molecule for an RCANA containing the catalytic region of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Creating an insertional mutation in the germ line of an animal, for generating a mutation in an offspring of an animal, comprise introducing into an animal a nucleic acid molecule comprising a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene therapy; insertional mutation; germ line specific promoter;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-APR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-NOV-1995;
15-NOV-1996;
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The present sequence exxemplified the primer of the invention, and is used to sequence Incyte clone 1 (ANV42737). The primer of the invention is labelled with a set of at least 2 different fluorescent labels. The set comprises an energy-transfer fluorescent label with at least 1 each of a donor fluorophore and an acceptor fluorophore capable of energy transfer, and separated by a distance x, and a second similar fluorescent label in which the separation distance is y, x and y being sufficiently
                                                                                                                                                                         Set of energy-transfer fluorescent labels with donor and different separations - useful for DNA sequencing allows analysing wavelengths or an increased throughput.
                                                                                                                                            Example 1;
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                                                     AAT32790 standard;
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(SAKA/) SAKAKI Y.
                                                                                                                                                                                                                                                                                                               Local Similarity
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                                                     DNA; 26 BP
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Pred. No. 2.6e
0; Mismatches
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Pred. No. 2.6e+02;
                                                                                                                                                                                                                                                                                      Mismatches
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RESULT 119
AAT32778 c
ID AAT32778 g
XX AAT32778;
XC AAT32778;
XT 18-FEB-19:
XX Triple he
XX Synthetic
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Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acids, proteins, endotoxins, nucleases, etc. by passing the mixture over a support to which an oligonucleotide is covalently attached; the oligonucleotide is able to form a triple helix by hybridiastion with a specific sequence present in the dsDNA. The method is particularly suit to purification of plasmid DNA. In an example, the present oligonucleotide was used for purifying plasmid pXL2726 (specially constructed by inserting a linker comprising a (GA)25 homopurine sequen into the BamHI and EcoRI sites of pBKS+)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 26 BP; 1 A; 11 C; 2 G; 12 T; 0 U; 0 Other;
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                                                                                                                                                                Triple helix; purification;
                                                                                                                                                                                                                    Triple helix-forming oligonucleotide
                                                                                                                                                                                                                                                       18-FEB-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Double-stranded (ds) DNA can be purified from complex mixtures of nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Purificn. of double stranded DNA by triple helix formation - on hybridising immobilised oligo-nucleotide to specific sequence
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                                                         20-JUN-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         1180 AGAGAAAGAGAGAGAGAGAGAAATCA 1203
                                                                                                                                                                                                                                                                                                                                                                                                                      26
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                                                                                                                                                                                                                                                                                                                              standard;
                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGAGAGAGAGAGAGAGAGCA
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                                                                                                                                                                                                                                                       (first
                                                                                                                                                                triplex formation; Hoogsteen base pairing; plasmid; double-stranded DNA; homopyrimidine; polypurine; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              triplex formation; Hoogsteen base pairing; plasmid; double-stranded DNA; homopyrimidine; polypurine; pXL2726;
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                                                                                                                                                                                                                                                                                                                            DNA;
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                                                                                                                                                                                                                                                         entry)
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                                                                                                                                                                                                                                                                                                                              BP.
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Pred. No. 2.6e
0; Mismatches
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08-NOV-1995;

95WO-FR001468

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RESULT 120
AAD03682/c
ID AAD036
XX AAD036
XX I9-JU)
XX Human
XX Human
XX Human
XX Human
XX Sperr
XW Candii
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XW Canci
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XW Delv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; phosphodiesterase; PDE; zcytor13; antiasthmatic; antiarthritic; antipsoriatic; cytostatic; antiatherosclerotic; antiinfertility; cardiant; antiinflammatory; dermatological; wound healing; antiviral; antibacterial; therapy; inflammatory bowel disease; diverticulitis; spermatogenesis; sperm capacitation; immunocontraceptive; vaccine; cancer; reperfusion ischaemia; psoriasis; melanoma; myocarditis; PDD; pelvic inflammatory disease; eczema; scleroderma; vasoconstriction; heart arrhythmia; congestive heart disease; muscle spasm; fatigue; chromosomal abnormality; gene therapy; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 26 BP; 1 A; 11 C; 2 G; 12 T; 0 U; 0 Other;
         Novel human phosphodiesterase polypeptide, zcytor13 and polynucleotide
                                                                                                                                                                                                                                                                                                                        06-OCT-2000; 2000WO-US027734.
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                                                                      WPI; 2001-266312/27.
                                                                                                                                                                                                                                                           07-OCT-1999;
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                                                                                                                                                                                                 (ZYMO ) ZYMOGENETICS INC
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                                                                                                                                    Novak JE,
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encoding it, for detecting human chromosomal abnormalities, identifying modulators and treating inflammatory and cardiovascular diseases
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Page 118; 122pp; English.

The patent discloses novel human phosphodiesterase (PDE), zcytor13 cDNA cc and its corresponding protein. Zcytor13 protein is used to promote wound condentity modulators (e.g. agonists or antagonists) zcytor13, its corresponds or antagonists or antagonists or antagonists) zcytor13, its corresponds or cardiovascular conditions, muscle inflammation, inflammation during candifer surgery, arthritis, asthma, inflammatory bowel disease or cc diverticulitis, for modulating spermatogenesis, sperm capacitation, as cinfmunocontraceptive or anti-fertility vaccine and for treating male cinfertility. Zcytor13 protein and its antibodies are used to diagnose cancer, reperfusion ischaemia, asthma, psoriasis and melanoma. Zcytor13 protein and its antibodies are used to diagnose concerns are used to enhance fertilitation. Zcytor13 antagonists are used to treat myocarditis, atherosclerosis, pelvic inflammatory disease (PID), psoriasis, eczema, scleroderma and other inflammatory disease (PID), compensed with vasoconstriction, heart arrhythmia, congestive heart consecuted with vasoconstriction, heart arrhythmia, congestive heart consecuted with vasoconstriction, heart arrhythmia, congestive heart consecuted by a consecuted in gene therapy. Cc zcytor13-cytokine fusion proteins or antibody-cytokine fusion proteins consecuted in gene therapy. Cc zcytor13-cytokine fusion proteins or antibody-cytokine fusion proteins consecuted in the present consecuted in the proteins of the proteins of

Sequence 26 BP; 1 A; 0 C; 0 G; 25 T; 0 U; 0 Other;

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                                             Similarity
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                                    Conservative
                                          0.4%;
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0; Mismatches
                                   0
                                             .6e+02
                                                     DB 1; Length 26;
                                    Indels
                                    0
                                    Gaps
                                    0
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AAS20596 standard; DNA; 26 BP

AAS20596

Human zsig63 cDNA sequencing primer ZC7764a.

23-APR-2002

(first entry)

RESULT 121
AAS20596/c
ID AAS205
XX AAS205
XX 23-APR
DT 23-APR
XX Human;
KW microb
KW gastro
KW acquir
KW acquir
KW acquir
KW achroni
XX Homo s
XX US6331
XX US6331
XX IS-MAF
XX US6331
XX US6331
XX US6331
XX US6331
XX Adler
XX Adler Human; zsig63; chromosome 4q12-4q13; salivary protein; antimicrobial; ss; macrobial infection, tooth decay; periodontal disease; thrush; emphysema; gattrointestinal disease; urinary tract infection; vaginal infection; skin infection; epithelial wound; chronic tissue damage; cystic fibrosis; acquired immunodeficiency syndrome; AIDS; lung infection; sarcoidosis; chronic bronchitis; gene therapy; protein therapy; primer; ZC7764a.

Homo sapiens.

US6331413-B1

17-MAR-2000; 2000US-00527345

17-MAR-1999; 99US-0124820P

(ZYMO) ZYMOGENETICS INC

Adler DA, Sheppard В (ў

WPI; 2002-096707/13.

Polynucleotides encoding salivary proteins useful as anti-microbial

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RESULT 122
AAS19344/c
ID AAS193
XX AAS193
XX AAS193
XX Oligon
XX Synthe
XX Synthe
XX Synthe
YT repeat
FT r
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Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a polynucleotide derived from the 4q12-4q13 region of human chromosome 4 and encoding a zsig63 polypeptide, a secreted salivary protein with anti-microbial activity. Due to their microbial activity, the sequences can be used in the study of microbial infections, e.g. for recombinant production of anti-microbial proteins. The sequences can be used in the treatment of tooth decay, periodontal disease, thrush, gastrointestinal disease, urinary tract infections, vaginal infections, skin infections, epithelial wounds, chronic tissue damage, acquired immunodeficiency syndrome (AIDS), cystic fibrosis, lung infections, sarcoidosis, emphysema and chronic bronchitis. This sequence represents a sequencing primer for cDNA encoding human zsig63
                                                                                                                                                          Purifying double-stranded (ds) DNA from a solution containing dsDNA and other components, comprises passing the solution through a support comprising a covalently coupled oligonucleotide able to form a triple helix with the dsDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligonucleotide
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                                                                                                              Example
                                                                                                                                                                                                                                                                                                                                                   Crouzet J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-MAY-2000; 2000US-00580923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAY-2001; 2001WO-US017122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-DEC-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Col 53;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                        (AVET )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA purification;
                                                                                                                                                                                                                                                                                                 2002-097772/13.
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                                                                                                                                                                                                                                                                                                                                                                                                          AVENTIS
                                                                                                      7.2; Page 20; 40pp; English.
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                                                                                                                                                                                                                                                                                                                                                   Scherman D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                          PHARMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers 5. .26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence used to purify plasmid XL2726.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag=
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"CT repeat type"
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Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                   Blanche F,
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This invention comprises a method of purifying double-stranded DNA from a solution containing the double-stranded DNA mixed with other components, comprising passing the solution through a support comprising a covalently

The present invention relates to a new secreted salivary protein, zsig63 The invention is useful for detecting in a test sample, the presence of an antagonist or agonist of zsig63 protein activity. The invention is

Example 1; Page 29; 33pp; English.

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RESULT 123
ABS52638/c
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Best Local S
Matches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 coupled oligonucleotide capable of forming a triple helix with the double-stranded DNA by hybridisation with a specific sequence present in the double-stranded DNA. The method is useful for purifying double-stranded DNA contained in a solution and mixed with other components. The new method is a simple, rapid and effective method for DNA purification, and makes it possible to obtain especially high purities with high yields. The method enables DNA to be purified from complex mixtures comprising other nucleic acids, proteins, endotoxins, nucleases and the like. The supports may be readily recycled, and the DNAs obtained display improved properties to pharmaceutical safety. Further, the method entails only one step contrary to prior art. The present sequence represents an oligonucleotide used to purify the XIZ726 plasmid using the method of the inventor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; secreted salivary protein; zsig63; immunogen; zsig63-cytokine; antibody-cytokine; in vivo killing; pathological microbe; bacteria; fungal; viral; infection; salivary gland; anti-microbial; dental caries; tooth decay; periodontal disease; thrush; gastrointestinal disease; urinary tract infection; vaginal infection; skin infection; microflora; epithelial wound; pathogenic colonisation; invasion; pro-inflammatory; incompetent immune system; AIDS; acquired immunodeficiency syndrome; chemotherapy; radiation treatment; lung infection; cystic fibrosis; digestion; PCR; primer; ss.
                                                                                             Novel secreted salivary protein, zsig63 and polynucleotide encoding useful for treating microbial infections, inflammatory conditions, caries and lung infections associated with cystic fibrosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 26
                                                                                                                                                                                                                                                                                                                                   03-AUG-2001; 2001US-00922480.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human secreted salivary protein zsig63 PCR primer ZC7764a.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABS52638
                                                                                                                                                                  WPI; 2002-635468/68.
                                                                                                                                                                                                Adler DA,
                                                                                                                                                                                                                                                                                                  17-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                     US2002081701-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo
                                                                                                                                                                                                                                                                                   17-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention
                                                                                                                                                                                                                                  (SHEP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Match 0.4%;
Local Similarity 87.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens.
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                                                                                                                                                                                                                                ADLER D A.
SHEPPARD P O.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGAGAGAGAGAGAGAGAGAGCA 3
                                                                                                                                                                                                Sheppard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                    2000US-00527345.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11 C; 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 19.2; DB 1; Length Pred. No. 2.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ή,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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CC also useful as an immunogen for producing an antibody to zsig63 cylpeptide. zsig63-cytokine fusion protein or antibody-cytokine fusion CC protein are useful for enhancing in vivo killing of target tissues. CC Pharmaceutical composition comprising purified zsig63 polypeptide are cc useful in the treatment of conditions associated with pathological CC microbes, including bacterial, fungal and viral infections. High CC expression of zsig63 in salivary gland suggests that anti-microbial cc periodontal disease, thrush and gastrointestinal disease. Other CC applications can be used in urinary tract infections, vaginal infections, CC prevention of infection in skin and other epithelial wounds. The CC polypeptides can be used to establish normal microflora and protect against pathogenic colonisation and invasion. The invention is useful CC when pro-inflammatory activity is desired. Applications for such pro-inflammatory activity is desired. Applications for such pro-CC damage in extremities associated with diabetes. Antagonists to zsig63 colypeptides may be useful as anti-inflammatory agents. The invention is useful for the treatment of patients having incompetent immune system, CC useful for the treatment of lung infections associated with cystic clibrosis and its agonists or antagonists are useful for aiding digestion. The present nucleic acid sequence represents a PCR primer that was used in the methods of the invention for identification of zsig63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; secreted salivary protein; zsig63 protein; host defense protein; immune modulating factor; antipathogenic; cell-cell signalling molecule; growth factor hormone activity, dental carries; infection; tooth decay; periodontal disease; gastrointestinal disease; infection; triush; urinary tract infection; vaginal infection; diabetes; obesity; thrush; urinary tract infection; vaginal infection; diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                          anti-inflammatory; chronic tissue damage; lung dysfunction; restenosis;
gene therapy; salivary gland dysfunction; prostate gland dysfunction;
forensic DNA profiling; chondrosarcoma; atherosclerosis; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAD45055;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAD45055 standard; DNA;
     WPI; 2002-642378/69
                                                                                                                                                                        17-MAR-1999; 99US-0124820P.
17-MAR-2000; 2000US-00527345.
                                                                                                                                                                                                                                                03-AUG-2001; 2001US-00923236.
                                                                                                                                                                                                                                                                                                                                                 US2002090677-A1
                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZC7764a primer used in the identification of human zsig63 DNA.
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                                                Adler DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5392 TAAAAAATACAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21;
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                                                                                                 ADLER D A.
SHEPPARD P O.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                Sheppard PO;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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Pred. No. 2.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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Novel secreted salivary polypeptide, zsig63, useful as antimicrobial agent for treating microbial infection, dental carries, periodontal disease, thrush gastrointestinal disease, and for aiding digestion.
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Example 1; Page 30; 33pp; English.

Cytchine, or as secreted extracellular matrix associated proteins with CC growth factor hormone activity. It is useful for treating conditions CC associated with pathological microbes, including bacterial, fungal and CC viral infections, for treating dental carries (tooth decay), periodontal CC disease, thrush and gastrointestinal disease, for treating urinary tract CC infection, vaginal infection and for preventing infection in skin and CC other epithelial wounds. zsig33 is useful for setablishing normal CC microflora and protect against pathogenic colonisation and invasion, for treating chronic tissue damage e.g. damage in extremities associated with CC diabetes and useful as anti-inflammatory agents. It is useful as a marker CC of lung dysfunction, salivary gland dysfunction, or dysfunction of CC prostate gland. It is also therapeutically useful for aiding digestion. CC plynucleotides of the invention are used in gene therapy for increasing CC or inhibiting zsig3 activity, for detecting abnormalities on human CC chromosome 4 associated with disease or other human traits and as CC diagnostics in forensic DNA profiling. Sequences of the invention are useful for stimulating proliferation or differentiation of cardiac CC myorytes, for proliferation or differentiation of cardiac conhibiting chondrosarcomas, atherosclerosis, restenosis and obesity. The human resident and as a context to the cardiac of the human resident conhibiting chondrosarcomas, atherosclerosis, restenosis and obesity. The can be used in detecting agoniats and antagoniats of its activity, and also useful as a host defense polypeptide, immune modulating factor, antipathogenic polypeptide, cell-cell signalling molecule, growth factor cytokine, or as secreted extracellular models. present sequence is a primer used in the identification of human zsig63 invention relates to human secreted salivary polypeptide designated growth factor, 18

Sequence 26 BP; 1 A; 0 C; 0 G; 25 T; 0 U; 0 Other;

S Best Loca Matches Query Match Best Local & 5392 TAAAAAATACAAAAAGAAAAA 5415 26 TAAAAAAAAAAAAAAAAAAAAA 3 21; Similarity Conservative 0.4%; 0; Mismatches Score 19.2; Pred. No. 2. .6e+02 DB 1; Length 26; Indels <u>.</u> Gaps 0,

AAS20671 standard; DNA; 26 ВP 뭉

09-APR-2002 (first entry) Human zalphall Ligand sequencing primer AAS20671; ZC7764a.

RESULT 125
AAS20671/c
ID AAS206
XX AAS206
XX O9-APR
XX Cytoki
KW Cytoki
KW Inatura
KW B-cell
KW Inmuno
XX Immuno
XX O9-MAI
PR 09-MAI
PR 01-UII
XX O7MO
PA (ZYMO 09-MAR-1999; 11-MAR-1999; 01-JUL-1999; Cytokine; zalphall Ligand; zalphall receptor; NK cell progenitor; natural killer cell proliferation; T-cell proliferation; B-cell proliferation; anti-tumour response; immune system; immune system; immune system; se. 09-MAR-2000; 2000US-00522217. 23-OCT-2001. US6307024-B1 Homo sapiens. 99US-0123547P. 99US-0123904P. 99US-0142013P.

(ZYMO) ZYMOGENETICS INC

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to the isolation of a novel cytokine, CC zalphall ligand and the polynuclectide encoding it. The invention also CC gives the sequence for the zalphall receptor and the polynucleotide CC encoding it. The zalphall ligand polypeptide stimulates proliferation of CC entural killer (NK) cells or NK cell progenitors, the activation of NK CC cells, proliferation of F-cells, proliferation of B-cells stimulated with CC anti-CD40 antibodies, stimulates an antigenic response in a mammal, and CC reduces proliferation of B-cells stimulated with anti-IgM antibodies. The CC zalphall ligand polypeptide is also useful in preparing antibodies that bind to zalphall ligand epicopes. The zalphall ligand polymuclectides can be used as probes or primers to clone regions of a zalphall ligand gene, CC and in gene therapy. Zalphall Ligand my also be used to identify CC inhibitors of its activity, to enhance the generation of anti-tumour responses with or without the infusion of donor lymphocytes, and to continue to the infusion of sevents are the infusion of a calphall and the infusion of a calphall and the infusion of a calphall and the continue regions of a calphall and regions
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Matches
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Best Local
                                                                                                                                                                                                                                                                               periodontal disease; thrush; gastrointestinal disease; epithelial wound; urinary tract infection, vaginal infection; skin infection; primer; pro-inflammatory; chronic tissue damage; vascular system; diabetes; AIDS; lung infection; cystic fibrosis; lung dysfunction; digestive; salivary gland carcinoma; Pneumocystis carrinii infection; emphysema; chronic bronchitis; prostate dysfunction; prostate adenocarcinoma; cell culture media; gene therapy; human chromosome 4q12-4q13; dentinogenesis imperfecta; dentin dysplasia type II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novak
Gross
                        17-MAR-1999; 99US-0124820P
17-MAR-2000; 2000US-00527345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New zalphall ligand polypeptides and polymucleotides, useful for stimulating proliferation, activation, differentiation and/or induction of inhibition of specialized cell function, or for stimulating an
                                                                                             03-AUG-2001; 2001US-00922469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ss; PCR; zsig63; adhesin; salivary gland; dental carries;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human zsig63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABX93599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABX93599 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a sequencing primer used to sequence CDNA Clones in the isolation of human zalphall Ligand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 7; Col 139; 105pp; English.
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Johnston
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR/sequencing primer ZC7764a.
                                                 99US-0124820P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ŊŖ,
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Nelson AJ,
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Dillon SR, 1
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RESULT 127
ADD33380
ID ADD333
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AC ADD333
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AC ADD333
XX
DT 15-JAN
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XX
DT 15-JAN
XX
XX
MOUSE
XX
MOUSE
XX
Mitoch

ADD33380;

ADD33380 standard; DNA; 26 BP

0

15-JAN-2004

(first entry)

ds; mouse; array; mitochondrial; hybridisation; energy-metabolism; mitochondrial disease; oxidative phosphorylation dysfunction;

Mouse mitochondrial DNA sequence SEQ ID NO:1151.

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The invention relates to an isolated zsig63 polypeptide comprising at CC least 90% identity to an amino acid sequence which comprises domain 1 of CC zsig63, domain 2, domain 3, mature zsig63 and full length zsig3. Also controlled are the polypuclectide encoding zsig63, a zsig63 expression CC vector, a cultured cell comprising the vector and expressing the protein, CC a DNA encoding a fusion protein (comprising amino acids 1-15, 16-37, 38-CC 126, 127-219 or 16-219 of zsig63 and an additional protein), using a CC zsig63 reporter gene construct to identify zsig63 agonists, and producing CC an anti-zsig63 antibody using zsig63 immunogenic peptides, Zsig63 is CC zsig63 protein activity. Zsig63 has antimicrobial activity and since CC exhibits high expression in salivary gland, can be used for treating CC dental carries, periodontal disease, thrush, and gastrointestinal CC disease, urinary tract infections, vaginal infections be used to establish CC normal microfiora and protect against pathogenic colonization and command microfiora and protect against pathogenic colonization and command microfiora and protect against pathogenic colonization and cordinated AlbS patients or in individuals that have undergone CC chemotherapy, radiation treatment, for treating lung infections e.g. in CC cystic fibrosis. Detection. Zsig63 particularly in diagnosing conditions associated with salivary gland or lung dysfunction including salivary gland or lung dysfunction, emphysema, chronic bronchitis, prostate dysfunctions such as prostate commonly used in culture media and may be used to replace serum that is commonly used in inhibit zsig63 activity, and for detecting abnormalities on human common services a primer used to isolate and sequence mucleic acdis conditions to a primer used to isolate and sequence mucleic acdis conditions to a primer used to isolate and sequence mucleic acdis conditions to a primer used to isolate and sequence mucleic acdis conditions.
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                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 29; 32pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Adler DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ADLE/) ADLER D A.
(SHEP/) SHEPPARD P
                                       5392 ТАЛАЛАЛАТАСАЛАЛАЛАЛАЛАЛА 5415
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26
                                                                             21;
                                                                                                     Similarity
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TARARARARARARARARARA 3
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                                                                                 Conservative
                                                                                                                                                                   BP; 1 A; 0 C; 0
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                                                                                                 0.4%;
                                                                               Score 19.2; DB 1; Length 26; Pred. No. 2.6e+02; 0; Mismatches 3; Indels
                                                                                                                                                                   G; 25 T; 0 U;
                                                                                                                                                                       0 Other;
                                                                                   0
                                                                                   Gaps
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oxidative stress; apoptosis; aging

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유
                                                                                                                                                                                      CC of the invention is useful for determining an expression profile of a containing nucleic acid, by contacting the array CC with the sample under conditions allowing selective hybridisation, and CC measuring hybridisation of nucleic acid in the sample to the array to CC produce an expression profile of a first labelled sample containing nucleic acid care an expression profile of a first labelled sample containing nucleic acid care an expression profile of a first labelled sample containing nucleic acid care at the total physiological condition. An array is useful for determining an expression profile diagnostic of an energy-metabolism-cc related physiological condition. An array of the invention is useful for determining mitochondrial biology gene expression profiles of organisms, cc diagnostic of energy metabolism-related physiological conditions, identifying biochemical conditions, which are useful for determining expression profiles of cidentifying such physiological conditions, identifying biochemical conditions, evaluating and/or monitoring the efficacy of such therapies, and creating and identifying animal models of human cenergy metabolism-related physiological conditions. An array is also useful for defining expression signatures or profiles for mitochondrial disorders that result from containing profiles for mitochondrial of diseases, as well as distinguishing clinical disorders that result from containing profiles for mitochondrial DNA creating and consisting and/or profiles for mitochondrial DNA closes used to make the probes of the invention. Some sequences are not present, these are SEQ ID NO's 295, 1174, 1213, 1700, 1728, 1730, 1905, cc
                                                                            Query Match
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Matches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a gene involved in mitochondrial biology. The array comprises two or more isolated nucleic acid molecules or spots, each molecule having a sequence chosen from sequence of 994 human probes and 2046 mouse probes. An array
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel array comprising at least two isolate nucleotide molecules, each molecule having a sequence capable of unique hybridising to a nucleic acid molecule which is an expression product
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 2; SEQ ID NO 1151; 201pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use in diagnosing pathologies and identifying biochemical pathways.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-300821/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-AUG-2001; 2001US-0316323P
31-AUG-2001; 2001CA-02356540
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                                     1192 АGAGAGAAATCAGAGAAAAGGCAGG 1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        containing probes for genes involved in mitochondrial biology,
l for determining mitochondrial biology gene expression profiles for
w
                                                                                                 Similarity
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                                                                                                                                                       BP;
                                                                              Conservative
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                                                                                             0.4%;
87.5%;
                                                                                                                                                           5 C; 8 G; 0 T; 0 U; 0 Other;
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                                                                            0;
                                                                        Pred. No. 2.50
0; Mismatches
                                                                                                 Score 19.2;
Pred. No. 2.
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                                                                                                 2.6e+02
                                                                                                                  DB 1; Length 26
                                                                              Indels
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                                                                              Gape
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RESULT 128

Sequence 26 BP; 1 A; 0 C; 0 G; 25

T; 0 U; 0 Other

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ADH44608/c
ID ADH4461
XX ADH4461
XX ADH4461
XX ADH4461
XX Human;
XX Human;
XX Human;
XX Human;
XX Impulor
XX Impulor
XX Impulor
XX Immuno
XX Immun
                                                                                           CC exposed to an antigen or pathogen comprises administering a composition CC comprising mature zalphall ligand polypeptide comprising residues 32-162 CC of ADM44572 in a pharmaccutical vehicle. Also included are stimulating an immune response in a mammal exposed to an antigen or pathogen CC (comprising zalphall ligand polypeptide in a pharmaccutical vehicle; (c) ethogen present in the mammal; (b) administering a composition CC pathogen present in the mammal; (b) administering a composition CC determining (in)directly the level of antigen or pathogen in the mammal; (c) determining (in)directly the level of antigen or pathogen in the mammal; (c) and (d) comparing the lavel indicates stimulation of immune response), and CC change in the level indicates stimulation of immune response), and CC stimulating an immune response in a mammal exposed to an antigen or pathogen or pathogen. CC ligand polypeptide in a pharmaceutical vehicle; (c) determining a post comparing the level of the antipody in (a) with (b), where an CC increase in the antibody level indicates stimulation of immune response). The method is useful for stimulating an immune response in a mammal cCC exposed to an antigen or pathogen, and for enhancing anti-tumour response) are diseases in metastasis, or tumour stasis. The tumour may be a haematopoietic tumour, a lymphoma or a B cell tumour or boosting immunity to infectious diseases, treating a wide capsed to an antigen or pathogen; and for enhancing anti-tumour available. The stumour and for enhancing anti-tumour available in the immune system, e.g. composition of immune capsonse, and in improving communocompromised patients, such as HIV+ patients and in improving constitution of the avenual of a sequence is a sequencing primer used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-MAR-1999;
11-MAR-1999;
01-JUL-1999;
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01-JUL-1999; 99US-0142013P
09-MAR-2000; 2000US-00522217
                                                                                exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 7; SEQ ID NO 38; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pathogen, useful for enhancing anti-tumor activity resulting in reduced tumor progression or metastasis, comprises administering zalphall ligand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stimulating an immune response in a mammal exposed to an antigen or pathogen, useful for enhancing anti-tumor activity resulting in red
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-AUG-2001; 2001US-00923246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tumour progression; metastasis; tumour stasis; haematopoietic tumour; lymphoma; B cell tumour; systemic lupus erythematosus; rheumatoid arthritis; myasthenia gravis; diabetes; infectious disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human cDNA encoding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to stimulating an immune response in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ZYMO ) ZYMOGENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immunocompromised patient, HIV infection; vaccine; primer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Presnell SR,
Johnston JV,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hammond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Holly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mammal
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RESULT 129
ADIO0944/c
ID ADIO099
XX ADIO09
XX ADIO09
XX Sequer
XX Sequer
XX Zalpha
XX HOMO {
PN US200:
XX HOMO {
PN US200:
XX HOMO {
YX US200:
XX 
RESULT 130
ADP19767/c
ID ADP197
XX
AC ADP197
XX
AC ADP197
XX
DT 26-AUG
XX
DE Human
XX
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Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novak JE,
Gross JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel isolated zalphall ligand polypeptide. The polypeptide of the invention may be useful for boosting immunity to infectious diseases and treating immunocompromised patients, such as HIV patients, as well as in improving vaccines. The current sequence is that of the PCR primer which was used in the exemplification of the invention.
                                                                                                                                                                                              ADP19767 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 26 BP; 1 A; 0 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New zalphall ligand polypeptides, useful for boosting immunity to infectious diseases, and treating immunocompromised patients, such as human immunodeficiency virus (HIV) patients, or in improving vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       zalpha11 ligand; immunity; infectious disease; immunocompromised patient;
HIV; vaccine; human; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequencing primer SEQ 38 used to analyse human zalphall ligand clone DNA.
                              Human zalphall ligand PCR primer seqid 38.
                                                                                    26-AUG-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 7; SEQ ID NO 38; 113pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-MAR-2000; 2000US-00522217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-NOV-2002; 2002US-00295723.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADI00944 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ZYMO ) ZYMOGENETICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5392
                                                                                                                                                                                                                                                                                                                                                                    5392 TAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                  26
                                                                                                                                                                                                                                                                                                                                                                                                                                       21;
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Johnston JV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.4%;
ilarity 87.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                              DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sprecher CA, Foster DC, Holly Nelson AJ, Dillon SR, Hammond
                                                                                                                                                                                              ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 19.2; DB 1;
Pred. No. 2.6e+02;
0; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 19.2;
Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Holly RD;
Hammond AK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26;
                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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문 S

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Human DNA probe used to immobilise CpG methylated DNA SeqID 165

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RESULT 131
ADJ13038/c
ID ADJ130
XX
AC ADJ130
AC ADJ130
XX
DT 20-MAY
XX
DE Human
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 21
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11-MAR-1999;
01-JUL-1999;
09-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novak JE,
Gross JA,
                                                                                                                                                   ADJ13038;
                                                                                                                                                                                                             ADJ13038 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 26 BP; 1 A; 0 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New zalphall ligand polynucleotide and polypeptide molecules, useful for treating cancer, e.g. melanoma, solid tumor, hematopoietic tumor, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-440401/41.
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                                                                                            20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 7; SEQ ID NO 38; 111pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lymphoma.
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                                                                                                                                                                                                                                                                                                                                                                                                                        5392 TAAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                 TAAAAAAAAAAAAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Presnell SR,
Johnston JV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                         (first entry)
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99US-0123904P.
99US-0142013P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Score 19.2; D
; Pred. No. 2.6e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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RESULT 132
AAN70281/c
ID AAN702
XX AAN702
XX AAN702
XX O3-OCT
DT 03-OCT
DT 26-WAY
XX Sequen
XX Hybrid
XX Hybrid
XX Synthe
XX Synthe
XX Sprthe
XX S
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                Synthetic.
                                                                                                                                                                                                       Hybridisation,
                                                                                                                                                                                                                                                             Sequence of scissile link probe MRC071 (HL).
                                                                                                                                                                                                                                                                                                                       03-OCT-2002
26-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                              AAN70281;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAN70281 standard; DNA; 27 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GARN/)
                                 08-JUL-1987
                                                                                          EP227976-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-874843/81.
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tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (BALO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2436 GGATGAGAAGGGGAGAGGT 2454
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LUEBKE K J.
BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 165; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative 0;
                                                                                                                                                                                                                                                                                                                       (revised)
(first entry)
                                                                                                                                                                                                       probe; ss
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Best Local Similarity
Matches 22; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The patent claims a new molecule of formula (NA1---S---NA2)n. NA1 and NA2 are noncomplementary nucleic acid sequences; --S--- = a scissile linkage; n= 1 or 1,000, which is used for the detection of specific DNA or RNA sequences in a test soln. The scissile link probes may be PL (Permanent Linkage to Solid Support) or HL (Hydrolysable Linkage to Solid Support). The differential liability of ANA and RNA may be exploited in a heterogenous system when the scissile linkage is an RNA molecule. In the examples, counter probe molecules 9 through 16 were used to determine suitable hybridisation conditions. (Updated on 03-OCT-2002 to add missing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hybridisation;
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The patent claims a new molecule NA2 are noncomplementary nucleic
                                                                         Example; p29; 46pp; English.
                                                                                                                        Synthetic nucleic acid probes linked by a scissile linkage.
                                                                                                                                                                                                    WPI; 1987-186567/27.
                                                                                                                                                                                                                                                   Duck P,
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26-MAY-1991
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of formula (NA1---S---NA2)n. NA1 and acid sequences; ---S--- = a scissile
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         Probe MRCO46 is bound by a permanent linkage to a solid support at its 3' end. It is used by reacting excess probe with a target nucleic acid; nicking hybridised probe at least once thin a predetermined sequence to form 2 or more probe fragments hybridised to the target sequence, which results in the probe fragments becoming hybridised to another probe; and identifying probe fragments, so detecting the target sequence. The probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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31-OCT-2002
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                                                                                                       Disclosure; Page 24; 34pp; English.
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17. .27
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31-OCT-2002
25-APR-1990
Probe MRCO71 is bound by a hydrolysable linkage to a solid support at its 3' end. It is used by reacting excess probe with a target nucleic acid; nicking hybridised probe at least once within a predetermined sequence to form 2 or more probe fragments hybridised to the target sequence, which results in the probe fragments becoming hybridised to another probe; and identifying probe fragments, so detecting the target sequence. The probe can react with target sequence to complete a cycling sequence. Using this system, sensitivity of 10 exp. -19 to 10 exp. -20 molecules of target can be obtd. The probe is cleavable at the ribonucleotides by a ds RNase, eg RNase H or ExoIII. (Updated on 31-OCT-2002 to add missing OS field.)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 20; 20pp; Japanese.
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                                                                                                                                          tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy, retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Mebber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      against tumour antigens, viral antigens (e.g. herpesviridae, retrovii and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The metho also useful for preventing cancer, asthma, infectious disease, allerg immune deficiency. The present sequence can also be used to redirect Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune sees. The present sequence seem to me such immuno stimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 27 BP; 0 A; 0 C; 0 G; 27 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
                                                                                                                                 scleroderma;
                                                                                                                                                                                                                                                            Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
                                                                                                                                                                                                                                                                                                  Angiogenesis inhibitory oligonucleotide #911.
                                                                                                                                                                                                                                                                                                                                       13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 101; Page 56; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaccinating against tumors, infeusing immunostimulatory Py-rich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-273485/28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-SEP-2000; 2000WO-US026383
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a method for stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (IOWA ) UNIV IOWA RES FOUND.
(COLE-) COLEY PHARM GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                              standard;
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                                                                                                                                 hypertrophic scar.
                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
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rich and TG
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Pred. No.
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allergy
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18
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WO200253141-A2 Synthetic.

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RESULT 139
ABL39406/c
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma authypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject naving a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,
                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                 Antibody-induced cell lysis; cancer; immunostimulatory; CD20; angiogenesis; metastasis; cytostatic; phosphorothicate backbone; ss.
                                                                                                                                                                                                                                                                                                                                                                                                              ABL39406 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bratzler
                                                      22-JUN-2000;
                                                                                  22-JUN-2001; 2001WO-US020154
                                                                                                                                           WO200197843-A2
                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                           Immunostimulatory nucleic acid SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                         16-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                     ABL39406;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acid of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-DEC-2001;
                             (IOWA ) UNIV IOWA RES FOUND.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
                                                       2000US-0213346P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0255534P.
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                                                                                                                                                                                                                                                                                                                                                       (first
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                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                      note=
                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                       entry)
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                                                                                                                                                                                    base= OTHER
                                                                                                                                                                    "phosphorothioate backbone"
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Pred. No.
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2.8e+02;
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밁 S

Query Match Best Local S Matches 22

Similarity

0.3%;

; Score 19; DB ; Pred. No. 2.8e 0; Mismatches

2.8e+02; <u>ن</u>

Length 27; Indels

0,

Gaps

0

Conservative

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The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, brast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, hodgkin's lymphoma, non-Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
Sequence 27
                                                                                      present sequence is an immunostin exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             developing cancer.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 310;
BP; 0 A; 0 C; 0 G; 27 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      312pp;
                                                                                                                               immunostimulatory oligonucleotide
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                                                                                                                                         described
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RESULT 140
ABK67015/c
ID ABK670
XX ABK670
XX DEFETO
AC ABK670
XX Primer
XX Primer
XX Primer
XX US6352
XX US6352
XX US6352
XX O5-MAR
XX O5-MAR
XX PRODUCTON
PR 21-MAY
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PR 21-MAY
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PR 21-MAY
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PR WPI; 2
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PR WPI; 2
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CC acids
CC BOURCE
                                                                                                                                                                                                                                                                                                Human gene specific PCR primer #1103
                                                                                                                                                                                                                                                                                                                      02-JUL-2002
                                                                                                                                                                                                                                                                                                                                                              ABK67015 standard; DNA; 27 BP
                                                                                                                                                                                                             05-MAR-2002.
                                                                                                                                                                                                                                                                                                                                          ABK67015;
                                                                                                                                                                                                                                    US6352829-B1.
                                                                                                                                                                                                                                                                             Primer; ss; DNA microarray; differential expression analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                      5389
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The invention relates to producing a sub-population of labeled nucleic acids (NAs) comprising contacting a NA sample from a physiological source, with a pool of 50 distinct gene specific primers under suitable

differences in sources, using

Example 3; SEQ ID

NO 1103; 11pp; English.

WPI; 2002-314699/35.

Chenchik A,

Jokhadze G,

Bibilashvilli

21-MAY-1997; 05-JAN-1999;

97US-00859998. 9905-00225928.

(CLON-)

CLONTECH LAB INC.

Producing sub-population of labeled nucleic acids, useful for analyzing differences in RNA profiles between several different physiological sources, using set of distinct gene specific primers.

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RESULT 141
ACH03245/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local (
                                                                                                         Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                        WPI; 2003-521815/49
                                                                                                                                                                                                                                                                                                                         29-MAR-2001; 2001US-0279642P
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                                                                                                                                                                                                                                                                   BERG/)
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nilarity 81.5%;
Conservative
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Pred. No. 2.8e+02;
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The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory

RESULT 143 AAH28299/c

Disclosure; Page 32; 229pp;

English.

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RESULT 142
ADB37208/c
IDB37208/c
IDB372
XX ADB372
XX ADB372
XX ADB372
XX Immuno
XX ds; al
KW hypo-r
XX Synthe
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Best Local S
Matches 22
                                                                                                                                                                                                               The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acid for prevention or treatment of the disease. The meth useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis inflammatory bowel disease e.g., ulcerative colitis or Crohn's di This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                         Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                           Sequence 27
                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 17; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bratzler RL, Petersen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BRAT/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADB37208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADB37208 standard; DNA; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 27 BP; 0 A; 0 C; 0 G; 27 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunostimulatory nucleic acid #822.
                                     5389 ААТТАЛАЛАЛАТАСЛАЛАЛАСАЛАЛАЛ 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5389 ААТТААЛАЛАТАСАЛАЛАДАЛАЛАЛ 5415
27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ) BRATZLER R L.
) PETERSEN D M.
) FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22;
                                                                                                            Similarity
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AAAAAAAAAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                         BP; 0 A; 0 C; 0 G; 27
                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                       0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DM,
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                                                                                    <u>,</u>
                                                                                                       Score 19;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fouron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 19;
Pred. No.
                                                                                    Mismatches
                                                                                                                                                                           T; 0 U; 0 Other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; 1
2.8e+02;
                                                                                                            2.8e+02;
                                                                                                                                 DB 1,
                                                                                    5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5
                                                                                                                            Length 27,
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                                                                                                                                                                                                                                             represents
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                                                                                    Gaps
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RESULT 144
AAH28297/C
ID AAH282
XX
AC AAH282
XX
DT 05-SEP
XX
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                                                                                                                                                                                                                                                                                                                 The specification describes a method for partitioning endogenous cellular CC mRNA-protein (mRNF) complexes. The method comprises contacting a CC biological sample comprising mRNP complex with ligand that specifically binds a component of mRNP complex, separating mRNP complex by binding the CC solid support and then collecting the mRNP complex by removing the CC complex from the support. The method is useful for in vivo partitioning CC complex from the support of the mRNP complex by removing the CC complex from the support. The method is useful for in vivo partitioning CC useful for determining the ribonomic profile of a cell which has numerous uses including monitoring of tumour development, state of growth or state cf development, perturbations of a biological system such as disease, CC distinguishing ribonomic profiles among organisms, to discriminate CC distinguishing ribonomic profiles among organisms, to discriminate to between transcriptional and post-transcriptional contributions to gene compression and to track the movement of RNAs through RNP complexes,
                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                               Query Match
                       05-SEP-2001
                                                                                                                                                                                                                                                                                                                 Sequence 22 BP; 2 A; 1 C; 1 G; 0 T; 18 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Partitioning endogenous mRNA-protein complexes in vivo, by contacting sample comprising the complex with ligand that binds to a component of the complex and separating complex by binding ligand with a binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mRNA protein complex; tumour development; cell aging; death;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3' untranslated region sequence from neuronal cadherin gene.
                                                       AAH28297
                                                                                        AAH28297 standard;
                                                                                                                                                                                                                                                                                                                                                 untranslated region (UTR) of mRNA of variating target sequences for RNA-binding proteins
                                                                                                                                                                                                                                                                                                                                                                including the interactions of combinations of proteins with RNAs in RNP complexes. AAH28281-AAH28316 represent sequences derived from the 3' untranslated region (UTR) of mRNA of various genes. The sequences contains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 6; Page 31; 49pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-425706/45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ribonomic profile;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-SEP-2001
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                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                              5394 AMAMATACAMAMAGAMAMA 5415
                                                                                                                                                                            22
                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry
                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0173338P
                                                                                      RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RNA-binding protein; ss.
                                                                                                                                                                                                                                                               0.3%;
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                                                                                        ВP
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                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                Pred.
                                                                                                                                                                                                                                                                               Score 18.8;
                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                               No.
                                                                                                                                                                                                                                                               2.9e+02;
                                                                                                                                                                                                                                                                               DB 1; Length 22;
                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                       contain
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28-DEC-1999;
                                                                                                                                                                                 28-DEC-2000; 2000WO-US035583
                                                                                                                                                                                                              Unidentified
                                                                                                                                                                                                                       mRNA protein complex; tumour development; cell aging; death; ribonomic profile; RNA-binding protein; ss.
                                                                                                                                                                                                                                      3' untranslated region sequence
                                                                                                                                           WPI; 2001-425706/45
                                                                                                                                                                                                     WO200148480-A1
                                                                                                                                                              (KEEN/) KEENE J D.
                                                                                                                                                     Ą
                                                                                                                                                     Tenenbaum
                                                                                                                                                                        99US-0173338P
                                                                                                                                                     SA,
                                                                                                                                                     Carson
                                                                                                                                                                                                                                      from neuronal cadherin gene
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Partitioning endogenous mRNA-protein complexes in vivo, by contacting sample comprising the complex with ligand that binds to a component or the complex and separating complex by binding ligand with a binding of.

Example 6; Page 31; 49pp; English.

The specification describes a method for partitioning endogenous cellular CC mRNA-protein (mRNP) complexes. The method comprises contacting a CC biological sample comprising mRNP complex with ligand that specifically CC binds a component of mRNP complex, separating mRNP complex by binding the Cligand with a molecule specific for ligand, which is attached to the CC solid support and then collecting the mRNP complex by removing the CC complex from the support. The method is useful for in vivo partitioning CC complex from the support end to the mRNP complex by removing the CC complex from the support. The method is useful for in vivo partitioning CC useful for determining the ribonomic profile of a cell which has numerous CC useful for determining the ribonomic profile of a cell which has numerous CC useful for determining the ribonomic profiles and system such as disease, CC drug or toxin treatment and the state of cell aging or death, distinguishing ribonomic profiles among organisms, to discriminate between transcriptional and post-transcriptional contributions to gene expression and to track the movement of RNAs through RNP complexes, including the interactions of combinations of proteins with RNAs in complexes. AAH28281-AAH28316 represent sequences derived from the 3' untranslated region (UTR) of mRNA of various genes. The sequences co sequences for RNA-binding proteins The sequences contain RNAs in RNP

Sequence 22 BP; 2 A; 1 C; 1 G; 0 T; 18 U; 0 Other;

Query Match
Best Local Similarity
Matches 20; Conserv Conservative 90.9%; 0; Mismatches Score 18.8; DB 1; Pred. No. 2.9e+02; ۲. Length Indels 0, Gaps 0

밁 ADQ14522 standard; RNA; 22 ВP

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5394 АЛАЛАТАСЛАЛАЛАБЛАЛАЛА 5415

Neuronal-cadherin 3'-UTR consensus sequence SEQ ID NO:17. 23-SEP-2004 (first entry)

ADQ14522;

RESULT 145
ADQ14522/c
ID ADQ145
XX
AC ADQ145
XX
ZY ADQ145
XX
XX
DT 23-SEF
DX Neuron
XX
DE Neuron
XX
KW metabo
KW mRNA t
KW mRNA t
KW meuron metabolic state; mRNA protein complex; mRNP complex; RNA binding mRNA complex-associated protein; mRNP complex-associated protein; mRNA target; protein target; physiological pathway; protein;

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RESULT 146
ADQ14524/c
ID ADQ145
XX ADQ145
XX ADQ145
XX Neuron
XX Metabo
KW METABO
KW MENA C
KW M
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method for assessing the metabolic state of a cell. The method comprises isolating at least one mRNP complex having at least one mRNP binding protein, and at least one mRNP complex-associated protein, and determining the expression level of the mRNP complex-associated protein, and determining the expression of the at least one mRNP complex-associated protein, where the level of expression of the at least one mRNP complex-associated protein is indicative of the metabolic state of the cell. The method can be used for assessing the metabolic state in a cell, and for identifying and evaluating mRNP and protein targets associated with mRNP complexes and implicated in the expression of proteins involved in common physiological pathways. The present sequence represents a neuronal-cacherin 3'-UTR consensus sequence, which is used in an example from the
                                                                                                                                                                                                                                                                                                                                                 metabolic state; mRNA protein complex; mRNP complex; RNA binding protein; mRNA complex-associated protein; mRNA protein; mRNA complex-associated protein; mRNA target; protein target; physiological pathway; neuronal-cadherin 3'-UTR consensus sequence; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Neuronal-cadherin 3'-UTR consensus sequence SEQ ID NO:19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22 BP; 2 A; 1 C; 1 G; 0 T; 18 U; 0 Other;
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                                                                                               04-DEC-2003; 2003WO-US038475
                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-SEP-2004
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                                    04-DEC-2002; 2002US-00309788
                                                                                                                                                                                                                           WO2004057032-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAAAATACAGAAAATAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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Pred. No. 2.9e
0; Mismatches
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RESULT 147
ADQ14562 standard; RNA; 27
XX
AC ADQ14562;
XX
AC ADQ14562;
XX
DT 23-SEP-2004 (first entry)
DT 23-SEP-2004 (first entry)
DT 23-SEP-2004 (first entry)
XX
DE Neuronal-cadherin 3'-UTR of the complex associated plant many for the complex complex complex comprising all proposed proplex comprising all properties one in the complex comprising all properties associated plant many complex comprisions all properties associated plant many complex complex comprisions all plant many complex complex comprisions all plant many complex complex comprisions all plant many complex complex co
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               metabolic state; mRNA protein complex; mRNP complex; RNA binding protein; mRNA complex-associated protein; mRNP complex-associated protein; mRNA target; protein target; physiological pathway; neuronal-cadherin 3'-UTR consensus sequence; ss.
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Pred. No. 2.
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Assessing the metabolic state of a cell comprises isolating at least one mRNP complex comprising at least one RNA binding protein, and at least one mRNA or at least one mRNP complex-associated protein.

Example 4; Page 35; 86pp; English.

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RESULT 148
ADQ14560/c
ID ADQ145
XX ADQ145
XX ADQ145
XX ADQ145
XX Neuron
XX Neuron
XX MRNA C
KW MRNA C
CX Synthe
AW MO2004
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DR WPI; 2
XX ASSESSE PT MRNP C
PT ONE MH
XX ASSESSE PT ONE MR
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Best Local (
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                state of a cell. The method comprises isolating at least one mRNP complex having at least one mRNP kinding protein, and at least one mRNP complex associated protein, and determining the expression level of the mRNP complex-associated protein, where the level of expression of the at least one mRNP complex-associated protein mRNP complex-associated protein is indicative of the metabolic state of the cell. The method can be used for assessing the metabolic state in a cell, and for identifying and evaluating mRNP and protein targets associated with mRNP complex-associated with mRNP mRNP and protein targets associated with mRNP complex complexes and indicating mRNP and protein targets associated with mRNP complexes.
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mRNA target; protein target; physiological pathway;
neuronal-cadherin 3'-UTR consensus sequence; ss.
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                                                                                                                                                                                                                                                                                                 Example 4; Page 35; 86pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-DEC-2003; 2003WO-US038475
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                                                                                                                                                                                                                                              The present invention describes a method for assessing the metabolic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    state; mRNA protein complex; mRNP complex; RNA binding protein; ex-associated protein; mRNP complex-associated protein;
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  the expression of
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Pred. No. 2.9e+02
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Query Match Best Local S Matches 20

Similarity

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Score 18.8; Pred. No. 3e

3; DB 1; Length 3e+02;

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BP;

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RESULT 149
AAV12482
AAV12482
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AC AAV1
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                                               CC The present sequence represents an oligonucleotide used in an example of CC the present invention. The present invention describes a method for CC synthesising a selected oligonucleotide (I) having well defined ends. The CC method comprises: (a) annealing a primer to a single-stranded (ss) CC comprises: (i) at least one nucleotide sequence complementary to (I); and CC (ii) at least one nucleotide effective to produce a cleavage site in the CC oligonucleotide multimer; (b) combining the primed circular template with CC at least two types of nucleotide triphosphates and a polymerase enzyme CC multimer addition of auxiliary proteins to yield a so oligonucleotide complementary to the circular oligonucleotide template. CC comprising multiple copies of (I); and (c) cleaving the primed ends. CC The method is used for the large-scale synthesis of DNA and RNA oligomers CC for use, e.g. as probes and diagnostic agents and/or therapeutic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rolling circle synthesis of oligo:nucleotide(s) - using primed template to produce oligonucleotide multimer for cleavage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US5714320-A
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Pred. No. 2.9e+02;
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RESULT 150
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                                                                                                                 Query Match
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Matches 20
                                                                                                                                                                                                                                                                                                                      an example of the method of the invention for synthesising an RNA oligonuclectide, comprising combining a single-stranded circular oligonuclectide, comprising at least one copy of a nuclectide sequence complementary to the sequence of the desired RNA oligonuclectide with at least 2 types of ribonuclectide triphosphate and a polymerase enzyme to yield a single-stranded RNA oligonuclectide multimer complementary to the circular oligonuclectide the RNA oligonuclectide multimer comprises multiple copies of the desired RNA oligonuclectide. The methods can be used for producing RNA oligonuclectides having a specific sequence and well defined ends. The RNA oligonuclectides having a specific sequence and well defined ends. The RNA oligonuclectides produced can be used for modifying the structure or function of a target molecule. They can also be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthesis of oligo:nucleotide(s) - using a single-stranded circular oligo:nucleotide template ribonucleotide tri:phosphate(s) and a polymerase to form multimer(s) which can be cleaved.
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                                                                                                                                                                                                                                       Sequence 26 BP;
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                                                                                                                                                                                                                                                                                                cleave disease-associated RNA,
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                                                                                                                                                 Similarity
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                                                                                                                                                                                                                                          24 A; 2 C; 0 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "Position 26 optionally bound to position 1"
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/note= "Position 1 optionally bound to position 26"
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                                                                                                                                                 90.9%;
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                                                                                                                                                 Score 18.8; DB 1; Length Pred. No. 3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a detectably labelled oligonucleotide multimer, comprising multiple contiguous copies of a repeated oligonucleotides. The detectably labelled oligonucleotide multimer is useful for detecting a target molecule. Oligonucleotide multimers may be produced in sufficient quantity to be useful for diagnostic and medical applications. The multimers are useful for affinity labelling of proteins, and for signal amplification in highly sensitive affinity capture and sequence identification applications. The method provides a faster, cheaper and simpler way for large-scale production of DNA and RNA oligomers and multimers. The incorporation of labels enables the oligonucleotide multimers to be useful in diagnostics and medicine. The present sequence represents an oligonucleotide used in an example from
RNA oligonucleotide synthesis; ribonucleotide triphosphate; polymerase; electroporation; calcium phosphate treatment; lipid-mediated delivery; cation-mediated delivery bacterial infection; viral infection; cation-selfated delivery; bacterial infection; viral infection; double stranded DNA oligomer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New detectably labelled oligonucleotide multimer, comprising multiple contiguous copies of a repeated oligonucleotide - useful for detecting target molecules in diagnosis and medicinal applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
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                                                                                                                                                                                                                                                                                                                 ADC65872
                                                                                                                                                                                                                                                                                                                                                                                  ADC65872 standard; DNA; 26
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90.9%; Pred. No. 3e
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26-FEB-1997;
11-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a method for synthesising an RNA oligonucleotide, comprising combining a single-stranded circular oligonucleotide template with at least two types of ribonucleotide triphosphate and a polymerase enzyme to yield a single-stranded RNA oligonucleotide multimer complementary to the circular oligonucleotide template, where the RNA oligonucleotide multimer comprises multiple copies of the desired RNA oligonucleotide. The method is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthesizing RNA oligonucleotide involves combining single-stranded circular oligonucleotide, ribonucleotide triphosphate and polymerase enzyme to yield desired RNA complementary to circular oligonucleotide
                                                                           Human; genome-derived myosin-like protein 1; GDMLP-1; muscle; myosin; chromosome 22; gene therapy; vaccine; skeletal muscle disorder; amplicon; screening; ss.
                                                                                                                                                                                                                                     ABN13299 standard;
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                                               Homo sapiens.
                                                                                                                                     Human GDMLP-1 25-mer scanning SEQ ID NO:5 sequence SEQ ID NO:13291.
                                                                                                                                                                         29-MAY-2002
                                                                                                                                                                                                        ABN13299;
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95US-00393439.
97US-00805631.
2000US-00569344.
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Pred. No. 36
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                                                                                            heart disease
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RESULT 154
ABV80872
ID ABV808
XX
AC ABV808
XX
DT 03-JAN
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03-JAN-2003 ABV80872;

(first

ABV80872 standard;

DNA;

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                                                                                                                                                                        The present invention describes a human genome-derived myosin-like protein 1 (hgmMLP-1). The protein and polynucleotide sequences of hgDMLP-CC I can be used in gene therapy and vaccine production. The hgDMLP-1 CC nucleic acids can be used as probes to detect, characterise and quantify concleic acids can be used as probes to detect, characterise and quantify concleic acids in samples, as amplification substrates, to CC protein variants having desired phenotypic improvements, and for CC used as immunogens to raise antibodies that specifically recognise hgDMLP-1 cc used as immunogens to raise antibodies that specifically recognise hgDMLP-1 -1 proteins, as standards in assays used to determine the concentration cc and/or amount specifically of hgDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser description ionisation, as that appealed to supplement in patients having specific deficiency in hgDMLP-1 croduction, and in vaccines or for replacement therapy. The conjuncted esquences encoding hgDMLP-1 may be used for diagnosing a CC disorder associated with the expression of hgDMLP-1, in particular heart CC and skeletal muscle disorders. hgDMLP-1 is localised to chromosome 22. The present sequence in the expression of the present invention. N.B. CC figuration, but was obtained in electronic format directly from WIPO can be sequence as a betained in electronic format directly from WIPO.
                                                            Query Match
Best Local Simi
Matches 21;
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21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
                                                                                                                            Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gu Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID
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30-JAN-2001;
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30-JAN-2001;
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30-JAN-2001;
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30-JAN-2001;
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                                                                           Local Similarity
                                                                                                                                                            ftp.wipo.int/pub/published_pct_sequence
                               3475
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AGCAGAGTGAAGCCAAGTGTGAGGA 25
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2000US-0236359P.
2000US-0236359P.
2000US-0236359P.
2001WO-US000661.
2001WO-US000662.
2001WO-US000664.
2001WO-US000665.
2001WO-US000665.
2001WO-US000665.
2001WO-US000666.
2001WO-US000669.
2001WO-US000669.
2001WO-US000669.
2001WO-US000669.
2001WO-US000669.
                                                               Conservative
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                                                              0; Mismatches
                                                                           Score 18.6;
Pred. No. 3.
                                                                                                                               G; 3 T; 0 U; 0 Other;
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                                                                             3.2e+02
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Human

HTPL scanning

oligonucleotide

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                                                 RESULT 155
ABS75627
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                                                                                                                                                                                                                                                                                               The present invention relates to human testis expressed Patched like CC protein (HTPL, see ABV878759 to ABB78720 and ABB98519 to ABB98520). HTPL CC has two isoforms, with a few single base pair differences between the CC two. One of the single base pair changes introduces a premature stop CC codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL CC shares an overall structure organisation with the Patched protein. The CC shared structural features strongly imply that HTPL plays a role similar to that of Patched, and is a potential tumour suppressor. HTPL is CC important in regulating male germ cell development, and the HTPL gene was CC mapped to human chromosome lopl2.1. HTPL and its coding sequence are CC useful for diagnosing a disorder caused by mutation in HTPL, and in CC therapy and manufacture of a medicament for treatment or prevention of CC such disorder associated with decreased expression or activity of human CC foetal liver, bone marrow, brain, kidney, lung, placenta, prostate, compared to human colon function. HTPL proteins and nucleic acids are clinically useful diagnostic markers and potential therapeutic agents for example from the invention. The present oligonucleotide was used in an acceptance of the strillty and cancer. The present oligonucleotide was used in an acceptance of the strillty and cancer.
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Best Local Similarity
Matches 21, Conserv
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30-JAN-2001;
30-JAN-2001;
ABS75627;
                               ABS75627 standard; DNA; 25 BP
                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
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                                                                                                                                                  770 GCGCCCAAGCCCAGGAAGGGGCAGG
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2001WO-US000665.
2001WO-US000668.
2001WO-US000668.
2001WO-US000669.
2001US-0327898P.
                                                                                                                                                                                   Conservative
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Pred.
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No. 3
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RESULT 156
ACC45214/c
ID ACC452
XX ACC452
XX ACC452
XX 16-JUN
DT 16-JUN
XX Human
XX Human
XX Human;
XW Human;
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Best Local S
Matches 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes a novel isolated nucleic acid that encodes one of three new isoforms of human pregnancy associated plasma protein E, PAPP-B. The products of the invention have abortive and contraceptive activity and can be used for gene therapy or in a vaccine. The nucleic acid, polypeptide encoded by it, or antibody to the polypeptide can be used in pharmaceutical compositions or vaccines for preventing or aborting pregnancy. PAPP-B is used in the antenatal diagnosis of dysgenetic pregnancies. The nucleic acids are used as probes to assess the level of PAPP-B isoform mRNA in chorionic villus samples, and the antibodies can be used to assess the expression levels of PAPP-B isoform proteins in chorionic villus samples, to diagnose dysgenetic pregnancies antenatally. This sequence represents an oligomer used in scanning the human PAPP-B genes described in the disclosure of the invention
                                                    Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DBFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                            Human NAC chimeric phosphorothioate oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New isolated nucleic acid encoding an isoform of human pregnancy associated plasma protein E, for preventing or aborting pregnancy
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dysgenetic pred
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                                                                                                                                                                                                                                                         ACC45214 standard;
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(SHAN/) SHANNON M
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ive; gene therapy; vaccine; pregnancy; antenatal; dia-
pregnancy; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 16 A; 0 C; 5 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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Pred. No. 3
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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound compound the profit of the specifically hybridises with the nucleic acid molecule encoding NAC and compound specifically hybridises with the compound specifically hybridises with the teast an 8-nucleobase portion of an active site on a nucleic acid compound specifically hybridises with compound a pharmaceutical carrier or diluent; (2) inhibiting the expression of NAC in cells or tissues comprising contacting the cells or tissues with compound (I) and (3) treating an animal having a disease or condition associated with NAC comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and can thinflammatory activities, and can be used in antisense therapy. The CC antisense compounds (I) are useful for modulating the expression of NAC, e.g. hyperproliferative disease, neurological disease, or a disease or atising from aberrant apoptosis. The compounds are also CC useful as research reagents and kits, or for diagnostics, therapeutics and prophylaxis, e.g. to prevent or delay infection, inflammation or CC tumour formation. NAC is also known as a death effector filament-forming CED4-like apoptosis protein (DEFCAP). NAC is also diven in the compounds are conformed there are sequence represents a human NAC chimeric constants and the conformation of the present sequence represents a human NAC chimeric constants and the conformation in the conformation of the present sequence represents a human NAC chimeric conformation in the conformation of the conforma
                                                                                                                                                    Query Match
Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                 Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                           phosphorothioate antisense oligonucleotide, which is given in the exemplification of the present invention
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                                                                          3466 CTCATCTTCAGCAGACGGAA 3485
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                                                                                                                                                            Conservative
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'note= "2'-O-methoxyethyl (2'-MOE) gapmer"
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e= "2'-O-methoxyethyl (2'-MOE) gapmer"
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                                                                                                                                                    Score 18.4; DI
Pred. No. 3.3e
0; Mismatches
                                                                                                                                                        0;
                                                                                                                                                                                                  3.3e+02
                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                            Indels
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                                                                                                                                                        Gaps
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RESULT 157 AAQ20032/c

Example 4; Page 25; 42pp; English

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New sequence-specific non-photo-activated crosslinking agents - the major groove of duplex DNA and are esp. useful for treating infections e.g. HIV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                    deoxyribonucleic acid; major groove; ethanoamino group;
aziridinylcytosine; cross-linking group; tumour necrosis factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cross-linking oligomer 212 for targetting human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-APR-1992
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                                                WPI; 1992-007480/01.
                                                             Matteucci
                                                                                          25-MAY-1990;
14-JAN-1991;
                                                                                                              25-MAY-1990;
                                                                                                                             12-DEC-1991
                                                                                                                                           WO9118997-A
                                                                           (GILE-) GILEAD
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                                                             Krawczyk
                                                                           SCIE INC.
                                                                                          90US-00529346.
91US-00640654.
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/mod_base= m5c
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== "N-methyl-8-oxo-2'-deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                              "N4N4-ethanocytosine"
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latent
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RESULT 158
AAQ30380/c
ID AAQ303
XX AAQ303
XX AAQ303
XX Oligom
XX Oligom
XX Oligom
XX Synthe
XX Eyr
FT modifi
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Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligomer TNF211
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07-DEC-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence is designed to target the Human tumour necrosis factor beginning at nucleotide 1137 and to covalently cross-link to it via the N4N4-ethanocytosine group. See also AAQ20031-Q20038
 11-JUN-1992
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                                  WO9209705-A1
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/mod_base= OTHER
"OTHER= N6 m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for forming triplex with HUMTNFAA target duplex
                                                             /*tag= k
/mod_base=
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L7
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                                                                                                             l_base=
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95.0%;
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e= "OTHER= N6 methyl-8-oxo-2'
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                                                                                                                  m50
                                                                                                                                                                                                                                                                                                                                                               m5c
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RESULT 159
AAQ30381/c
ID AAQ303
XX AAQ303
XX AC AAQ303
XX DT 25-MAR
DT 07-DEC
XX Oligom
XX Tumour
KW Tumour
KW malign
XX Synthe
XX Synthe
XX Synthe
XX FT modifi
FT modifi
FT modifi
FT modifi
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Best Local S
Matches 19
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08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human rumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitits B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                    Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV, malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                          Oligomer TNF212 for forming triplex with HUMTNFAA target duplex.
                                                                                                                                                                                                                                                      25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                             AAQ30381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 22 BP; 4 A; 7 C; 0 G; 11 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
            modified_base
                                                              modified_base
                                                                                                                  modified_base
                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                      AAQ30381 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 12; Page 70; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1992-217083/26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-NOV-1990;
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(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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                                                                                          /*tag= a
/mod_base= OTHER
                                                                                                                                Location/Qualifiers
/*tag=
                         note=
                                      /*tag= b
/mod_base= OTHER
                                                                             note=
                                                                                                                                                                                                                                                                                                                       DNA;
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                          "OTHER=
                                                                             "OTHER=
 Ω
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                                                                                                                                                                                                                                                                                                                      BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 18.4; D
Pred. No. 3.3e
0; Mismatches
                          8
                                                                             N4
                                                                             N4
                          methyl-8-oxo-2' deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>Ą</u>
                                                                             ethanocytosine'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                        3.3e+02;
1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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S
                       Matches
                                 Query Match
Best Local (
                                                                                                The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ3452-25501 and AAQ30226-448.
                                                                                                                                                                                                                                                                                                                                                                              17-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                              Claim 12;
                                                                                                                                                                                                                                                 New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
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                                                                  Sequence 22 BP; 3
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                                                                                                                                                                                                                                                                                                                       Froehler B,
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08-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                     23-NOV-1990;
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                                                                                         Updated on 25-MAR-2003 to correct PN field.)
1182 AGAAAGAGAGAGAGAAAT 1201
                       19;
                                  Similarity
                                                                                                                                                                                                                            Page 70; 77pp; English.
                      Conservative
                                                                                                                                                                                                                                                                                                                     Krawczyk S,
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91US-00686546.
91US-00686547.
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91US-00643382.
91US-00683420.
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/mod_ba
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/note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DOG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mod_base=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *tag=
                                                                  A; 8 C; 0 G; 11 T; 0 U; 0 Other;
                                95.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    _base= m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 base≂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  base=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ω
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                                                                                                                                                                                                                                                                                                                       Matteucci MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    m5c
                     0;
                    Score 18.4; DB 1; Length 22; Pred. No. 3.3e+02; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N6 methyl-8-oxo-2' deoxyadenine"
                                                                                                                                                                                                                                                              which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                       Milligan
                      0
                      Gaps
                      0
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片 Ś

5392 TAAAAAATACAAAAAAGAAAAAA 5415

Query Match Best Local S Matches 20

l Similarity 20; Conserv

0.3%; ilarity 83.3%; Conservative

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Score 18.4; Pred. No. 3. Mismatches

3.4e+02; BB

Length Indels

24;

0

Gaps

0

Sequence 24

BP; 0 A; 0 C; 0 G; 23 T; 0 U; 1 Other;

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RESULT 160
ABK48140/c
ID ABK4811
XX ABK481
XX ABPORG
XX Aminop
KW Aminop
KW baked
XX Synthe
PN W02002
PD 28-FEE
XX Synthe
PN W22-AU
XX Synthe
PN W2002
PD 28-FEE
XX Synthe
PN W02002
PM 22-AU
XX Synthe
PN W02002
PM 23-AU
XX Examp
XX Examp
XX In is
PT compoi
XX In in in
XX In in in
XX In
XX In in
XX In
X
                                                                                                    The invention relates to an isolated polypeptide with aminopeptidase contivity and the gene encoding it (including sequences complimentary to the gene and which hybridise to it at high stringency), from Aspergillus criger. Also included are a nucleic acid construct comprising the above control sequences that control the production of the polypeptide in a suitable expression host, a crecombinant expression vector comprising the above construct or vector, and producing the produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating an above strain/crecombinant host cell to produce a supernatant and/or cells comprising cultivating and the polypeptides and for preparing a cheese to enhance the flavour. The invention provides a bacterial enzyme for protein cultivation provides a bacterial enzyme for protein compared to a gents, and the enzyme has been isolated and characterised, compared to a gents, and the enzyme has been isolated and characterised, compared to a previously observed weak aminopeptidase activity, to produce flavouring agents from continuence of enzymes to produce flavouring adents which can severely degrade the amino acids obtained. The present sequence is a creverse transcriptase (RT) PCR primer used to investigate the intron-exon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aspergillus niger aminopeptidase RT-PCR primer poly-T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK48140;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABK48140 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               An isolated polypeptide with aminopeptidase activity, compositions, such as bread and cheese, with enhanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-257917/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aminopeptidase; primer; ss; food composition; dough; flavour enhancer; baked product; cheese; poly-T; reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-JUN-2002
                                                                                    structure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 5; Page 40; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Basten D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (STAM ) DSM NV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-AUG-2000; 2000EP-00202995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-AUG-2001; 2001WO-EP009925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200216618-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dekker PJT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                    aminopeptidase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Schuurhuizen PW, Schaap PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                    gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for preparing food flavoring.
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RESULT 161
ADM92894
ADM92894
ADM92894
AC ADM928
XX SNP-0
XX SNP-0
XX SNP-0
XX SNP-0
XX SNP-0
XX Homo
X
RESULT 162
AAS20595/c
ID AAS205
XX
AC AAS205
XX
DT 23-APR
XX
DB Human
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates an isolated polynucleotide (I) encoded by a cardiovascular associated (CA) gene, having allelic variation contained in a functional surrounding like full length cDNA for CA gene polypeptide, and with or without the CA gene promoter sequence. (I) is a polynucleotide comprising single nucleotide polymorphisms predicting cardiovascular disease. The polynucleotides are useful for assessing predisposition or susceptibility to a cardiovascular disease, e.g. atheroselerosis, ischemia/reperfusion, hypertension, restensis, arterial inflammation, myocardial infarction, and stroke. These may also be used to predict personal medication schemes omitting adverse drug reactions, or as probes for detecting genetic polymorphisms and as templates for the recombinant production of normal or variant peptides/polypeptides encoded by the genes. This sequence corresponds to a PCR primer to amplify one of the forest of the invention
   Human zsig63 cDNA sequencing primer ZC7231.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 75; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated polynucleotides comprising single nucleotide polymorphisms of the cardiovascular gene, useful for assessing predisposition or susceptibility to a cardiovascular disease, e.g. atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SNP; single nucleotide polymorphism; cardiovascular associated gene; allelic variation; atherosclerosis; ischemia; reperfusion; hypertension; restenosis; arterial inflammation; myocardial infarction; stroke; primer;
                                                                23-APR-2002
                                                                                                                             AAS20595;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               restenosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-JAN-2002; 2002EP-00000153
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SNP-containing cardiovascular associated gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-JUN-2004 (first entry)
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                                                                                                                                                                                           AAS20595 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (FARB
                                                                                                                                                                                                                                                                                                                                               2003-577532/54.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or stroke.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13 A; 0 C; 12 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kallabis
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                                                                                                                                                                                              ВÞ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 18.4; DB 1; Length 25; Pred. No. 3.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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RESULT 163
ABS22637/c
ID ABS226
XX
AC ABS226
XX
DT 15-NOV
DX
DX
Human
XX
Human
XX
Human
XX
Human
XX
W Human
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I Octh
XW Human
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                 Human; secreted salivary protein; zsig63; immunogen; zsig63-cytokine; antibody-cytokine; in vivo killing; pathological microbe; bacteria; fungal; viral; infection; salivary gland; anti-microbial; dental caries tooth decay; periodontal disease; thrush; gastrointestinal disease; urinary tract infection; vaginal infection; skin infection; microflora; epithelial wound; pathogenic colonisation; invasion; pro-inflammatory; chronic tissue damage; vascular system; diabetes; anti-inflammatory; incompetent immune system; AIDS; acquired immunodeficiency syndrome; chemotherapy; radiation treatment; lung infection; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a polynucleotide derived from the 4q12-4q13 region of human chromosome 4 and encoding a zsig63 polypeptide, a secreted salivary protein with anti-microbial activity. Due to their microbial activity, the sequences can be used in the study of microbial infections, e.g. for recombinant production of anti-microbial proteins. The sequences can be used in the treatment of tooth decay, periodontal disease, thrush, gastrointestinal disease, urinary tract infections, vaginal infections, skin infections, epithelial wounds, chronic tissue damage, acquired immunodeficiency syndrome (AIDS), cystic fibrosis, lung infections, sarcoidosis, emphysema and chronic bronchitis. This sequence represents a sequencing primer for cDNA encoding human zsig63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; zsig63; chromosome 4q12-4q13; salivary protein; antimicrobial; emphysen microbial infection; tooth decay; periodontal disease; thrush; emphysen gastrointestinal disease; urinary traction; vaginal infection; skin infection; polithelial wound; chronic tissue damage; cystic fibrosi acquired immunodeficiency syndrome; AIDS; lung infection; sarcoidosis; chronic bronchitis; gene therapy; protein therapy; primer; 2C7231.
                                  chemotherapy; radiation treatment; lung infection; cystic digestion; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABS52637 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 26 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Polynucleotides encoding salivary proteins useful as anti-microbial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Adler DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US6331413-B1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5392 ТАЛАЛАЛАТАСАЛАЛАЛАДАЛАЛА 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002-096707/13
                                                                                                                                                                                                                                                                                                                                                                                                 secreted salivary protein zsig63 PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26 ВАЛЛАЛАЛАЛАЛАЛАЛАЛАЛАЛАЛ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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Pred. No. 3
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sapiens.

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RESULT 164
AAD45054/c
ID AAD450
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AC AAD450
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DT 27-DEC
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DE ZC7231
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                                                                                                                                                                                                                                                                      श्च
                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a new secreted salivary protein, zsig63.

CC The invention is useful for detecting in a test sample, the presence of cc an antagonist or agonist of zsig63 protein activity. The invention is cc also useful as an immunogen for producing an antibody to zsig63 cc polypeptide. zsig63-cytokine fusion proteins or antibody-cytokine fusion protein are useful for enhancing in vivo killing of target tissues. CC pharmaceutical composition comprising purified zsig63 polypeptide are cc useful in the treatment of conditions associated with pathological compression of zsig63 in salivary gland suggests that anti-microbial compression of zsig63 in salivary gland suggests that anti-microbial compression of zsig63 in salivary gland suggests that anti-microbial compression of infection in the treatment of dental caries (tooth decay), compression of infection in sain and other epithelial wounds. The periodontal disease, thrush and gastrointestinal disease. Other capalisations can be used to establish normal microflora and protect capalisation of infection in skin and other epithelial wounds. The polypeptides can be used to establish normal microflora and protect against pathogenic colonisation and invasion. The invention is useful when pro-inflammatory activity is desired. Applications for such pro-inflammatory activity is desired. Applications for inve
                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                             Matches
                                            27-DEC-2002
                                                                                                                                AAD45054 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 26 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel secreted salivary protein, zsig63 and polynucleotide encoding it useful for treating microbial infections, inflammatory conditions, dental caries and lung infections associated with cystic fibrosis.
  2C7231 primer used in the identification of
                                                                                      AAD45054;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 29; 33pp; English.
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17-MAR-2000; 2000US-00527345
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SHEPPARD P
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Pred. No. 3
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                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 26;
  human
  zsig63 DNA
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Human; secreted salivary protein; zsig63 protein; lost defense protein; immune modulating factor; antipathogenic; cell-cell signalling molecule; growth factor; cytokine; growth factor hormone activity; dental carries; infection; tooth decay; periodontal disease; gastrointestinal disease; thrush; urinary tract infection; vaginal infection, diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                             anti-inflammatory; chronic tissue damage; lung dysfunction; restenosis, gene therapy; salivary gland dysfunction; prostate gland dysfunction;
                                                                                                                                                                                                                                                                                                                                                                                                                                       forensic DNA profiling; chondrosarcoma; atherosclerosis; primer;
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Homo sapiens

US2002090677-A1

03-AUG-2001; 2001US-00923236.

17-MAR-1999; 99US-0124820P. 17-MAR-2000; 2000US-00527345.

(ADLE/) ADLER D A. (SHEP/) SHEPPARD P O.

Adler DA, Sheppard g

2002-642378/69

Novel secreted salivary polypeptide, zsig63, useful as antimicrobial agent for treating microbial infection, dental carries, periodontal disease, thrush gastrointestinal disease, and for aiding digestion.

Example 1; Page 29; 33pp; English.

The invention relates to human secreted salivary polypeptide designated as zsig63 and nucleic acid molecules encoding such polypeptides. zsig63 can be useful as a host defense polypeptide, immune modulating factor, also useful as a host defense polypeptide, immune modulating factor, contributed the polypeptide, cell-cell signalling molecule, growth factor, crytokine, or as secreted extracellular matrix associated proteins with crytokine, or as secreted extracellular matrix associated proteins with crytokine, or as secreted extracellular matrix associated proteins with crytokine, factor hormone activity. It is useful for treating conditions crytokine, infections activity. It is useful for treating conditions crytokine with pathological microbes, including bacterial, fungal and crytical infection, virial infection and for preventing infection in skin and crytokine political wounds. zsig63 is useful for establishing normal crimection, vaginal infection and for preventing infection in skin and crytokine protect against pathogenic colonisation and invasion, for treating chronic tissue damage e.g. damage in extremities associated with diabetes and useful as anti-inflammatory agents. It is useful as a marker of lung dysfunction, salivary gland dysfunction, or dysfunction of chromosome 4 associated with disease or other human traits and as chromosome 4 associated with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as completed with disease or other human traits and as co

Sequence 26 B₽; 0 A, 0 Ç 0 G; 25 T; 0 Ç, 1 Other;

Ś Query Match Best Local S Matches 20 5392 ТААЛАЛАТАСАЛАЛАСЛАЛАЛА 5415 26 Similarity 0.3%; Score 18.4; DB 1; Length 26; Pred. No. 3.4e+02; Indels 0 Gaps

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ABX93599/c
ID ABX935
XX ABX935
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XX BBX935
XX BBX935
XX BBX936
XX BBX936
XX BBX11v
XX BBX1v
XX Chroni
XX Chroni
XX Chroni
XX US200;
XX US200;
XX US200;
XX IJ-NAI
XX IJ-NAI
XX ALLe
XX IJ-NAI
XX IJ-NAI
XX IALE

CC least 90% identity to an amino acid sequence which comprises domain 1 of casig63, domain 2, domain 3, mature zsig63 and full length zsig3 Also CC included are the polynucleotide encoding zsig63 and full length zsig3 Also CC included are the polynucleotide encoding zsig63 and special comprising the protein, a zsig63 expression CC vector, a cultured cell comprising the vector and expressing the protein, CC a DNA encoding a fusion protein (comprising amino acids 1-15, 16-37, 38-CC iz6, 127-219 or 16-219 of zsig63 and an additional protein), using a Zsig63 reporter gene construct to identify zsig63 agonists, and producing CC an anti-zsig63 antibody using zsig63 immunogenic peptides, Zsig63 is CC useful for detecting in a test sample, the presence of antagonist of CC zsig63 protein activity. Zsig63 seam, the presence of antagonist of CC disease, periodontal disease, thrush, and gastrointestinal CC disease, periodontal disease, thrush, and gastrointestinal CC disease, urinary tract infections, vaginal infections, skin infections and other epithelial wounds. The polypeptides can be used for treating CC invasion. Zsig63 can also be used for providing pro-inflammatory activity for treating chronic, tissue damage particularly in areas having limited CC immunocompromised AIDS patients or in individuals that have undergone CC immunocompromised AIDS patients or in individuals that have undergone CC immunocyptis. Detection of zsig63 polypeptide at relatively high CC levels in the trachea may indicate that such polypeptides may serve as a CC marker of lung dysfunction. Zsig63 is also useful in diagnosing conditions associated with salivary gland or lung dysfunction including conditions associated with salivary gland or lung dysfunction including conditions and carcinoma, procurate dysfunctions such as prostate exceptions. Procurate dysfunctions such as prostate conditions and dispersions and as components of defined cell culture media and may be used to replace serum that is commonly used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ss; PCR; zsig63; adhesin; salivary gland; dental carries; periodontal disease; thrush; gastrointestinal disease; epithelial wound; urinary tract infection; vaginal infection; skin infection; primer; pro-inflammatory; chronic tissue damage; vascular system; diabetes; AIDS; lung infection; cystic fibrosis; lung dysfunction; digestive; salivary gland carcinoma; Pneumocystis carinii infection; emphysema; chronic bronchitis; prostate dysfunction; prostate adenocarcinoma; cell culture media; gene therapy; human chromosome 4q12-4q13; dentinogenesis imperfecta; dentin dysplasia type II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel isolated zsig63 polypeptide, member of the adhesin family, useful for treating dental carries, periodontal disease, thrush, gastrointestinal disease, urinary tract infections, vaginal infections,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated zsig63 polypeptide comprising least 90% identity to an amino acid sequence which comprises domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 29; 32pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-328428/31.
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(SHEP/) SHEPPARD P O.
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                                                                                                     electrophoresis, and as internal controls allowing for calculation of relative amounts of material present. The present sequence represents specific example of a PCR primer used in the method of the invention
                                                                                                                                              The invention relates to producing a population of double-stranded product DNA molecules comprising amplification by a nested PCR method. The method is useful in profiling mRNA transcribed in a system under investigation. The oligonuclectides are used as size standards in
                                                                               Sequence 26 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 1 Other;
                                                                                                                                                                                                               Claim 6; Page 85; 105pp; English.
                                                                                                                                                                                                                                                   Producing a population of double-stranded product DNA for mRNA profiling, comprises amplification by nested
                                                                                                                                                                                                                                                                                                                        Linnarsson S,
Montelius A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nucleic acid manipulation; mRNA profiling; polymerase chain reaction; electrophoresis; PCR; primer; ss.
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                                          Score 18.4;
Pred. No. 3
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    Length 26;

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RESULT 167
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Best Local
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                      transgenic mouse; neurological disorder; adrenal gland disorder; colon disorder; intestinal disorder; cardiovascular disorder; muscular disorder; blood disorder; immune disorder; bone disorder; joint disorder; metabolic disorder; nutritive disorder; cancer; kidney disorder; liver disorder; lung disorder; breast disorder;
                                                                                                                                                       G protein-coupled receptor; GPCR; drug screening; diagnosis;
                                                                                                                                                                                                                                                                                                                          ADO30495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a DNA molecule containing a sequence complementary to a Bovine Viral Diarrhea Virus (BVDV) RNA. The RNA when introduced into susceptible host cells, induces the generation of infectious BVDV particles. The attenuated BVDV clone or strain is useful in the manufacture of a vaccine for the prophylaxis and treatment of BVD infections. The invention is useful in gene therapy. The present sequencies a PCR primer used to amplify BVDV gene. (Updated on 27-OCT-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           27-OCT-2003
07-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                           ADO30495 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 26 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and treatment of Bovine Viral Diarrhea Virus (BVDV)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-SEP-2001; 2001DE-01043813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-SEP-2002; 2002WO-EP009925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pestivirus type 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bovine Viral Diarrhea Virus; BVDV; infection; vaccine; prophylaxis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bovine viral
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BOEH ) BOEHRINGER INGELHEIM VETMEDICA GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA molecule useful for manufacturing a vaccine for the prophylaxis treatment of Bovine Viral Diarrhea Virus (BVDV) infections, comprise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5392 TAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                              PCR primer, SEQ ID NO:1598.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BAAAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   complementary to a BVDV RNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                                                                                                                                                                                                                                                                                           DNA;
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                                                                                                                                                                                                                                                                     entry)
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                                                                                                                                                                                                                                                                                                                                                                           ВP
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Pred.
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No. 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
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skin disorder; stomach disorder; pancreas disorder; spleen disorder; thymus disorder; thyroid disorder; antiparian; antimanic; cytostatic; antiinflammatory; vasotropic; antianginal; antiarrhythmic; CNS; central nervous system; respiratory; antidiarrhoeic; antidiabetic; virucide; hepatotropic; antibacterial; antidiarrhoeic; antidiabetic; dermatological; antiulcer; antithyroid; antialergic; anorectic; immunosuppressive; nephrotropic; gene therapy; GPCR modulator; rapid amplification of cDNA ends; RACE PCR; primer; ss.

Synthetic.

W02004040000-A2.

13-MAY-2004.

09-SEP-2003; 2003WO-US028226.

09-SEP-2003; 2003WO-US028226.

09-SEP-2003; 2003WS-0461329P.

(PRIM-) PRIMAL INC.

Gaitanaris GA, Bergmann JE, Gragerov A, Hohmann J, Li F; Madisen L, Mcilwain KL, Pavlova MN, Vassilatis D, Zeng H;

WPI; 2004-390329/36.
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Novel mammalian G protein coupled receptors, useful for identifying compounds that modulates diagnosing and treating disease condition associated with GPCR dysfunction e.g. autoimmune diseases, angina pectoris, Parkinson's disease.

Disclosure; SEQ ID NO 1598; 542pp; English.

CC (GPCRs) and nucleic acids encoding them. The invention also relates to CC sequences at least 90% identical to the GPCR proteins and nucleic acids co of the invention; methods of treating, preventing or diagnosing diseases CC associated with GPCRs of the invention; methods of screening for CC compounds useful in the treatment of GPCR related diseases; a transgenic CC mouse comprising a GPCR gene of the invention; methods of screening for CC compounds useful in the transgenic or in an endogenous GPCR gene; cells derived CC from the transgenic mice; kits comprising several mice, each of which has CC a mutation in a different GPCR gene of the invention; and kits comprising corobes which hybridise to GPCR polymucleotides of the invention. The CC invention further discloses variants of the GPCR polypeptides and vectors comprising a GPCR nucleic acid. The GPCR nucleic acids and proteins may CC be used in the diagnosis, treatment or prevention of a wide variety of diseases including neurological disorders (e.g., Alzheimer's disease, CC discasses including neurological disorders (e.g., Alzheimer's disease, CC e.g., Crohn's disease, diarrhoea, food poisoning or irritable bowel CC syndrome); cardiovascular disorders (e.g., angina, cardiac arrhythmia or CC myocardial infarction); muscular disorders (e.g., angina, cardiac arrhythmia or CC myocardial point disorders (e.g., angina, cardiac arrhythmia or CC myocardial or letwaemia); immune disorders (e.g., anteoammune disorders (e.g., CC antenia or letwaemia); immune disorders (e.g., anteoammune disorders (e.g., CC antenia or letwaemia); immune disorders (e.g., anteoammune disorders (e.g., CC antenia or letwaemia); immune disorders (e.g., anteoammune disorders (e.g., CC antenia or letwaemia); immune disorders (e.g., cardiac arrhythmia or CC diseases); and disorders of the kidney, liver, lung, breast, ovary, cardiac arrhythmia or constituted disorders (e.g., osteoarthytics, rheumatoid constituted by constituted specification; those sequences not shown constituted in electron

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Sequence 26 BP; 0 A; 0 C; 0 G; 24 T; 0 U; 2 Other;
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Query Match 0.3%; Score 18.4; DB 1; Length 26; Best Local Similarity 83.3%; Pred. No. 3.4e+02; Matches 20; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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RESULT 170
AAC62451/c
ID AAC624
XX
AC AAC624
XX
DT 07-FEB
XX
DE Cleava
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AAC62450/C
ID AAC624
XX AAC624
XX AAC624
XX O7-FEB
XX Nuclei
KW Nuclei
XX Nuclei
XX Nuclei
XX Nuclei
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention is concerned with the cleavage of nucleic acids from solid supports. This is carried out by adding a non-conventional nucleotide into the nucleic acid attached to the support, so that it is recognised and cleaved by a specific DNA glycosylase and the sequence is released. This is useful in many molecular biological procedures such as sequencing, in vitro amplifications, CDNA and template preparation, DNA-based assays, mutagenesis procedures, nucleic acid purification and affinity chromatography. The present sequence is an oligonucleotide used in assays to demonstrate the methods of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23 BP; 0 A; 0 C; 0 G; 22 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 16; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detaching nucleic acid molecule comprising unconventional nucleotide incorporated at predetermined site from a solid support involves cleaving the nucleic acid molecule at the site of unconventional nucleotide.
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   Cleavage of nucleic acids from
                                                               07-FEB-2001
                                                                                                                         AAC62451;
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                                                                                                                                                                                   AAC62451 standard;
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                                                                                                                                                                                                                                                                                                                                                                 5393 AAAAAAATACAAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                   RNA;
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Pred. No. 3.6e+02;
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      solid supports assay oligonucleotide #2.
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RESULT 171
AAT99286
ID AAT992
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Matches 20
                                     28-AUG-1992;
02-FEB-1993;
06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention is concerned with the cleavage of nucleic acids from solid supports. This is carried out by adding a non-conventional nucleotide into the nucleic acid attached to the support, so that it is recognised and cleaved by a specific DNA glycosylase and the sequence is released. This is useful in many molecular biological procedures such as sequencing, in vitro amplifications, CDNA and template preparation, DNA-based assays, mutagenesis procedures, nucleic acid purification and affinity chromatography. The present sequence is an oligonucleotide used in assays to demonstrate the methods of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acid cleavage; solid support; affinity chromatography; sequencing; mutagenesis; DNA preparation; nucleic acid purification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detaching nucleic acid molecule comprising unconventional nucleotide incorporated at predetermined site from a solid support involves cleaving the nucleic acid molecule at the site of unconventional nucleotide.
                                                                                              07-JUN-1995;
                                                                                                                          30-SEP-1997
                                                                                                                                                    US5672479-A.
                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                      cancer; probe;
                                                                                                                                                                                                                                      PUR element; human; c-myc; inhibitor; hyperproliferative
                                                                                                                                                                                                                                                                POLYA, a competitor
                                                                                                                                                                                                                                                                                             15-APR-1998
                                                                                                                                                                                                                                                                                                                                                   AAT99286 standard; DNA; 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-MAR-2000; 2000WO-GB001190
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                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GOLD/) GOLDSBOROUGH
             (MOUN ) MOUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                 5393 АЛАЛАЛАТАСАЛАЛАЛАСАЛАЛА 5415
                                                                                                                                                                                                                                                                                                                                                                                                                       23 AAAAAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                             (first entry)
             SINAI SCHOOL MEDICINE
                                       92US-00938189.
93US-00014943.
95US-00470911.
                                                                                                                                                                                                                        hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99GB-00007245
                                                                                              95US-00486421.
                                                                                                                                                                                                                                                                 oligonucleotide for binding human PUR-alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                    BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 18.2; DB 1
Pred. No. 3.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 23;
                                                                                                                                                                                                                                        disease; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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RESULT 172
AAV31743
ID AAV317
XX AAV317
XX AV317
XX PUR-al
KW PUR-al
KW Hyperp
XX Synthe
EN US5756
XX US5756
XX O6-JUN
XX PR 02-FEE
XX PR 02-FEE
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P
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Best Local S
Matches 20
  Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                     This is the nucleotide sequence of an oligonucleotide used as a competitor with the PUR element in the method of the invention, involving the use of the PUR protein and its fragments, which inhibit PUR protein binding to PUR element or other proteins. Inhibitors of PUR activity may be useful for treating viral infections and hyperproliferative diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The oligonucleotides AAT99279-T99286 were used as competitor oligonucleotides for the binding of PUR prtein to DNA. The PUR sequence can be used to identify chemical or biological compounds that bind to PU or binding fragments of PUR. Inhibitors of PUR activity may be used to treat hyperproliferative diseases such as cancer
                                                                                                    Sequence 24 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 24 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                 Example 7.1.1; Col 33; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1998-321632/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bergemann AD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-AUG-1992;
02-FEB-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US5756684-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PUR-alpha gene; inhibition; hyperproliferative disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleotide sequence of the oligonucleotide POLYA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV31743;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAV31743 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example; Col 33; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1997-488859/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bergemann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MOUN ) MOUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local sim.
                                                                                                                                                                                                                                                                                                                                                                                                             protein and its fragments - that inhibit PUR protein binding to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5393 AAAAAATACAAAAAGAAAAA 5415
                                                                                                                                                        as cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  n or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                   or other proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAAAAAA 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
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fragments, to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SINAI SCHOOL MEDICINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Johnson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  92US-00938189.
93US-00014943.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95US-00470911.
                                                                                                      24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inhibition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                    A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ligands or modulators - using immobilised PUR co treat hyper-proliferative diseases, e.g. can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             묫
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP.
Score 18.2; DB 1; Length 24; Pred. No. 3.6e+02; O; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               viral infection; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 18.2; DB 1;
Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PUR element;
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     Gaps
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ARSSULT 173
AAXO4086
ID AAXO40
XX AAXO40
AC AAXO40
XX AAXO40
XX DT 12-APR
XX PUR el
KW PUR el
KW PUR el
KW MONOCI
XX US5865
PN US5865
XX US5865
XX 18-6-JUD
XX 28-AUD
PR 06-JUD
XX 18-FEE

RESULT 174
AAA40359/c
ID AAA403
XX
AC AAA403
AC AAA403
XX
DT 10-NOV
XX
DE pBlues
XX
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Matches
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02-FEB-1993;
06-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes a monoclonal antibody that specifically binds to an epitope of the PUR protein. Antibodies that bind to the PUR protein and neutralise PUR activity may be used to treat hyperproliferative diseases such as cancer. PUR antibodies may be used diagnostically to detect aberrant expression of the PUR protein and/or mutations in the PUR gene. The present sequence represents an oligonucleotide used in the cloning and sequence represents an oligonucleotide used in the cloning and sequence represent invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 24 BP; 24 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX04086 standard; DNA;
                           pBluescriptSK+
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oligonucleotide POLYA used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX04086;
                                                                               10-NOV-2000
                                                                                                                                   AAA40359
                                                                                                                                                                                     AAA40359 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bergemann AD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PUR element; PUR-alpha; hyperproliferative disease; cancer; monoclonal antibody; identification; characterisation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-APR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; Col 33; 64pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Monoclonal antibody specific for PUR protein - useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (MOUN ) MOUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US5869622-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                       5393 AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                        ANANAAAAAAAAAAAAAAAAA 23
                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92US-00938189.
93US-00014943.
95US-00470911.
                        phagemid
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                                                                                                                                                                                       RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    87.0%;
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                        primer SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2;
Pred. No. 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                .
No
                                                                                                                                                                                                                                                                                                                                                                                                                                                          .6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human;
                                                                                                                                                                                                                                                                                                                                                                                                                              0
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ARAGOTAT 175
ARAGO353/c
ID ARAGO3
XX ARAGO3
AC ARAGO3
XX 10-NOV
XX pBlues
XX pBlues
XX Primer
XX Synthe
XX WO2000
XX WO2000
XX WO2000
XX T-DEC
XX 17-DEC
XX PR 17-DEC
XX PR (ROMA/
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention describes a novel method (M1) for inserting a nucleic acid (M1) into a circular vector (V1) comprising joining ends of N1 and V1 under a first nucleic acid concentration, melting hybridized cohesive circularization ends, and reannealing the ends at a second concentration. The methods are useful for the cloning small amounts of nucleic acids and forming genomic libraries of complex populations of DNA or cDNA. The methods allow the cloning of minute amounts of nucleic acids efficiently and avoids the size selection problems of prior art systems. Larger nucleic acid fragments are just as easily cloned, allowing highly representative libraries to be made. Vector to vector ligation is avoided using the methods. AAA40351-A40366 represents primers used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 0 A; 0 C; 0 G; 16 T; 8 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Inserting a nucleic acid into a circular vector comprising joining their ends, melting, and reannealing ends at two different concentrations, useful for cloning small amounts of nucleic acids and forming genomic
                                                                                                                                                                Synthetic
                                                                                                                                                                                                                            pBluescriptSK+ phagemid primer
                                                                                                                                                                                                                                                         10-NOV-2000
                                                                                                                                                                                                                                                                                                                   AAA40353 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2000-442381/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-DEC-1999;
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                                             17-DEC-1998;
                                                                                                        22-JUN-2000.
                                                                                                                                      WO200036088-A1.
                                                                                                                                                                                              Primer; cloning; ligation; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Romantchikov Y;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ROMA/) ROMANTCHIKOV Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Primer; cloning; ligation; ss
                 (ROMA/) ROMANTCHIKOV Y
                                                                                                                                                                                                                                                                                                                                                                                                            5393 AAAAAAATACAAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    n 0.3%;
Similarity 87.0%;
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                                             98US-00213834.
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                                                                          99WO-US030277.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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Pred. No. 3.6e+02;
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 Indels

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RESULT 176
AAP99756/c
ID AAP9977
XX
AAP9977
XX
AAP9977
XX
C
AAP997
XX
VACCIN
KW VACCIN
KW immuno
KW infect
XX
VO2001
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27-SEP-1999;
23-AUG-2000; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     under a first nucleic acid concentration, melting hybridized cohesive circularization ends, and reannealing the ends at a second concentration. The methods are useful for the cloning small amounts of nucleic acids and forming genomic libraries of complex populations of DNA or CDNA. The methods allow the cloning of minute amounts of nucleic acids efficiently and avoids the size selection problems of prior art systems. Larger nucleic acid fragments are just as easily cloned, allowing highly representative libraries to be made. Vector to vector ligation is avoided using the methods. AAA40351-A40366 represents primers used to illustrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inserting a nucleic acid into a circular vector comprising joining their ends, melting, and reannealing ends at two different concentrations, useful for cloning small amounts of nucleic acids and forming genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-APR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory nucleic acid #872.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF99756 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 24 BP; 0 A; 0 C; 0 G; 24 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 66;
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                                                                                                                                                                                                                                                                          (IOWA ) UNIV IOWA RES FOUND (COLE-) COLEY PHARM GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5393 AAAAAATACAAAAAGAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAAAAAAAAAAAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                               Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease;
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                                                                                                                                                                                                                                                                                                                                                                  99US-0156113P
99US-0156135P
2000US-0227436P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 allergy; immune deficiency; phosphorothicate; ss
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                                                                                                                                                                                                                     Vollmer
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Pred. No. 3.6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 24;
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Claim 101; Page 57; 338pp; English

Vaccinating against tumors, infectious diseases, allergies using immunostimulatory Py-rich and TG nucleic acids.

and asthma

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RESULT 177
AAF99304/c
ID AAF993
XX AAF993
XX Immuno
XX Immuno
XX Vaccin
KW infect
XX Vaccin
KW infect
XX Synthe
XX W02001
XX W02001
XX 05-APR
XX 25-SEP
PR 25-SEP
PR 25-SEP
PR 25-SEP
PR 23-AUG
YX (IOWA
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XX WPI; 2
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XX Vaccir
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Best Local S
Matches 20
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immune response. The present sequence acid. The immunostimulate (py-rich) or thymidine (T) rich. against tumour antigene ......
                                                                                                            acid to a non-rodent subject in sufficient quantity to stimulate immune response. The present sequence is one such immunostimulato
                                                                                                                                                                                                                                                                                                                                                              Vaccinating against tumors, infeusing immunostimulatory Py-rich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  immunostimulatory; tumour; viral infection; bacterial
fungal infection; parasitic infection; cancer; asthma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytostatic; virucidal; bactericidal; fungicidal; imulatory; tumour; viral infection; bacterial infe
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                                                                                                                                                                               The method comprises administering an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease; allergy; immune deficiency; phosphorothioate;
                                                                                                                                                                                                                                                                                           Page 46; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schetter C,
                                                                                                                                                                                                                    invention relates to a method for stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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   The present sequence is one such immunostimulatory immunostimulatory nucleic acids can be pyrimidine rich idmunostimulatory nucleic acids can become subjects idme (T) rich. The method is used to vaccinate subjects tigens, viral antigens (e.g. herpesviridae, retroviridae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                                                                                                                                                 infectious diseases, allergies and asthmarich and TG nucleic acids.
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Pred. No. 3
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                                                                                                                                                                                  immunostimulatory nucleic
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Best Local S
Matches 20
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27-SEP-1999;
23-AUG-2000; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parassitic antigens. The metho also useful for preventing cancer, asthma, infectious disease, allerg immune deficiency. The present sequence can also be used to redirect Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                             The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or stappylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Thi immune response and to activate immune cells. Note: the
                                                                                                                                                                                                                                                                                                      Vaccinating against tumors, infectious diseases, allergies and using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                    Claim 101; Page 57; 338pp; English
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               present sequence may have a phosphorothioate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                    (IOWA ) UNIV IOWA RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-SEP-2000; 2000WO-US026383
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            infectious disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5393 AAAAAATACAAAAAGAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                      AM.
                                                                                                                                                                                                                                                                                                     immunostimulatory Py-rich and
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                                                                                                                                                                                                                                                                                                                                                                                      Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 0 A; 0 C; 0 G; 24 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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99US-0156135P.
2000US-0227436P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          allergy; immune deficiency;
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                                                                                                                                                                                                                                                                                                                                                                                          Vollmer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Score 18.2; Di
; Pred. No. 3.6e
0; Mismatches
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                    backbone
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphorothioate; ss
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18
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S

Sequence 24

BP; 24

P

0 C; 0 G; 0 T; 0 U; 0 Other;

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RESULT 179
ABV14842/c
ID ABV148
XX ABV148
XX ABV148
XX Human
XX Human
XX Human
XX Homo s
XX II-FEE
PR 13-DEC
XX NOVEL
PT 13-DEC
XX WPI; 2
XX NOVEL
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16-MAR-2000; 2000US-0189862P.
25-MAY-2000; 2000US-0207454P.
09-JUN-2000; 2000US-0211314P.
18-JUL-2000; 2000US-0219007P.
13-DEC-2000; 2000US-0255281P.
                                                                                                                                                                                                                                                                           The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for: (a) assessing whether a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient; (d) assessing the efficacy of a thorapy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cancer has metastasized in a patient; (f) assessing the prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient; (l) is also useful as a pharmacodyanamic or pharmacogenomic marker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel isolated nucleic acid molecule associated with cancerous state prostate cells and correlating with presence of prostate cancer, used for detecting presence of prostate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; prostate cancer; cytostatic; carcinogen; pharmacodyanamic marker; pharmacogenomic marker; gene; ss.
                                                                                                                                                                                                                              Sequence 24 BP; 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-FEB-2001; 2001WO-US005171
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                                                                                                                                          Local Similarity
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                                                                                                               Conservative
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                                                                                                                                                                                                                              A, 0 C; 0
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                                                                                                               0, Mismatches
                                                                                                                                       Score 18.2; DB 1
Pred. No. 3.6e+02
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Pred. No. 3.6e+02
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                                                                                                                                                                                                                              24 T, 0 U; 0 Other;
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                                                                                                                                                                  DB 1; Length 24;
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RESULT-180
ABS78477/c
ID ABS784
XX ABS7847/c
AD ABS784
XX ABS784
AC ABS784
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                      The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first ordinier housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangieteasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atheroscierosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telanglectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inhibiting angiogenesis in a subject, involves administering antiangiogenic nucleic acid molecule to the subject.
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                                                                                                                                                                                                                                                                  Sequence 24
                                                                                                                                                                                                                                                                                                                                     hypertrophic scars. acid of the inventi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Angiogenesis inhibitory oligonucleotide #961
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                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                        invention
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                                                                                                                                    Conservative
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Pred. No. 3.6e+02
0; Mismatches
                                                                                                                                                                                                DB 1; Length
                                                                                                                                    Indels
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ABS77949/c ID ABS77949 standard; I XX AC ABS77949;

DNA;

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BP.

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RESULT 182
ABS78478
ID ABS784
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AC ABS784
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DT 13-DEC
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                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plague neovascularisation; telangiectasia; haemophiliac joint; plague neovascularisation; telangiectasia; haemophiliac joint;
Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 0 A; 0 C; 0 G; 24 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inhibiting angiogenesis in a subject, involves admin antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-566690/60.
                                                   Angiogenesis inhibitory oligonucleotide #962.
                                                                                       13-DEC-2002
                                                                                                                                                            ABS78478 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-DEC-2000; 2000US-025534P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-DEC-2001; 2001WO-US048458
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLE-)
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                                                                                                                                                                                                                                                                                                                   20;
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                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                       (first entry)
                                                                                                                                                            DNA;
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                                                                                                                                                            24
                                                                                                                                                            BP
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                                                                                                                                                                                                                                                                                                                                      Score 18.2;
Pred. No. 3
                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                                        DB 1;
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                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                   Gaps
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16-APR-2002

(first entry

ABL39405;

modified_base

Location/Qualifiers

Synthetic

Antibody-induced cell lysis; cancer; immunostimulatory; angiogenesis; metastasis; cytostatic; phosphorothicate l

; CD20; backbone;

88

Immunostimulatory nucleic acid SEQ ID NO: 841.

ABL39405 standard; DNA; 24

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RESULT 183
ABL39405/c
ID ABL394
XX ABL394
XX ABL394
XX I Immuno
XX I Immuno
XX Antibo
KW Antibo
KW Angiog
XX Synthe
XX Synthe
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diabetic retinopathy; retinopathy of prematurity; macular degeneration corneal graft rejection, neovascular glaucoma; retrolental fibroplasia rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Inhibiting angiogenesis in a subject, involves administering antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 scleroderma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-DEC-2001; 2001WO-US048458.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5393 AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 24 A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  relates to inhibiting angiogenesis in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. 3.60
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2; DB 1; Length 24; Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a subject,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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RESULT 184
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Best Local Sim.
Matches 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tassue cancer, cervical cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, kidney cancer, varian cancer, pancreatic cancer, prostate cancer, rabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                  ss; guanosine triphosphatase activator protein 10.12; PCR; primer; malignant tumour; inflammation; immunological disease; haemopathy; human immunodeficiency virus infection; HIV, RT-PCR; reverse transcriptase PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Guanosine triphosphatase activator protein 10.12 RT-PCR primer #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABX14631;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 309; 312pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Weiner G,
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      10-NOV-2000, 2000CN-00127330
                                                                 10-NOV-2000; 2000CN-00127330
                                                                                                                                                                                                  CN1352022-A
                                                                                                                                                                                                                                                          Unidentified
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Similarity 87.0%;
20; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Score 18.2; D; ; Pred. No. 3.6e 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3; Indels
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RESULT 185
ABA9884 0
ID ABA988
XX ABA9888
XX ABA9888
XX Compon
KW Compon
KW metabo
XX Synthe
XX Synthe
YT Modifi
FT W02001
XX PF 03-MAY
XX DALBE-
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention discloses a new kind of polypeptide, guanosine triphosphatase activator protein 10.12, polynucleotides encoding this polypeptide and DNA recombination process to produce the polypeptide. The present invention also discloses applying the polypeptide in treating various diseases, such as malignant tumours, inflammations, immunological diseases, haemopathy and human immunodeficiency virums (HIV) infection. The present invention also discloses the antagonist resisting the polypeptide and its treatment effect. The present invention also discloses the application of the polynucleotides for encoding guanosine triphosphatase activator protein 10.12. The present sequence is a reverse transcriptase (RT)-PCR primer used to isolate nucleic acids encoding guanosine triphosphatase activator protein 10.12
                                                                                                                                         04-MAY-2000; 2000US-00564230
                                                                                                                                                                        03-MAY-2001; 2001WO-US014528
                                                                                                                                                                                                       08-NOV-2001
                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                         Component detection; clinical diagnosis; cell detection; drug detection; metabolite detection; pesticide detection; ligand detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                          A24 oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABA98840 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 5 A; 5 C; 10 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptide-quanosine triphosphatase activator protein 10.12 polynucleotide for encoding such polypeptide.
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                                                                                                            (DADE-) DADE BEHRING INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3594 TGCTCAGGCTAATCTCAAACTCC 3616
                                                                             JS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24 TGCCCAGGCTGGTCTCAAACTCC 2
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nilarity 87.0%;
Conservative 0
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                                                                            Cromer R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                              /*tag= a
/label= OTHER
/note= "modified by PO2OCH2CH2CH2SSCH2CH2CH2OH"
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                                                                               Patel
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Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                               Kurn
                                                                             z
                                                                               De
                                                                               Keczer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                               ß
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and
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Detection of multiple analytes, and pollutants, involves adding

e.g. ligands, receptors, polynucleotides a combination of sensitizer reagents and

WPI; 2002-164078/21.

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RESULT 186
AAS17869
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the detection of multiple components in a CC medium, comprising combining the medium with at least two sensitiser cCC reagents, and at least one reactive reagent activated by a product CC generated by the sensitiser reagents when activated; and differentially contivating the sensitiser reagents. The combination of sensitiser reagents and reactive reagents allows differential detection of the CC engonents Methods of the invention may be used for the detection of CC ligands, receptors and polynucleotides, and also for the detection of CC e.g. cells, various drugs, metabolites, pesticides (e.g. polyhalogenated biphenyls, phosphate esters, thiophosphates, carbamates and cC polyhalogenated sulfenamides) and pollutants. Methods of the invention CC application of the methods of the methods of the single test medium. An CC application of the methods of the current sequence represents A24 CC oligonucleotide for the creation of oligonucleotide coated phthalocyanine cCC sensitiser particles (Pc-A24)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                             Detecting presence of polynucleotide, differences between polynucleotide sequences, useful for detecting single nucleotide polymorphism and alleles of polynucleotide sequence involves use of three competitive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Polymorphism detection; sequence detection; mutation detection; A24; probe; non-dissociative termolecular complex; dopTAR sensitiser particle; single nucleotide polymorphism; SNP; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAS17869 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 24 BP; 24 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                 WPI; 2002-097664/13.
                                                                                                                                                                                                19-MAY-2000; 2000US-00574596
                                                                                                                                                                                                                                 17-MAY-2001; 2001WO-US016089
                                                                                                                                                                                                                                                                                                   WO200190399-A2
                                                                                                                                                                                                                                                                                                                                                                                 modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A24 oligonucleotide used to create dopTAR chemiluminescer particles.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            reactive
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     h 0.3%;
Similarity 87.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reagent Actuatable by a product of the sensitizer reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAAAAAAAAAAAAAAAAA 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                 BEHRING INC
                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                         /*tag= a
/note= "A is covalently linked to a
/note= "A is covalently linked to a
PO2OCH2CH2CH2CH2SSCH2CH2CH2OH moiety"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 18.2; DB 1;
Pred. No. 3.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3; Indels
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This invention represents a method for detecting the presence of a CC polymucleotide sequence, differences in polymucleotide sequences or CC mutations in genomic DNA. The method involves contacting 3 contacting 3 polymucleotide probes with a sample containing a polymucleotide. The CC clist probe hybridises to a region of the polymucleotide sequence and the CC second and third probes can bind a second region of the polymucleotide sequence and the CC presence or difference of one or more nucleotides. The reaction medium is CC then subjected to conditions for forming substantially non-dissociative termolecular complexes, which can be at least one of, the polymucleotide sequence with the first and second probes or the polymucleotide sequence CC with the first and third probes. The oligonucleotide probes have labels con-covalently bound to allow for their detection upon binding. The method of the invention is useful for detecting the presence of a single can be used for the direct detection of nucleic acid in very small cC quantities without amplification. In addition, the method may be carried out with amplification of the target and reference sequences. This sequence represents an oligonucleotide probe A24 used to create dopTAR CC binding the nucleic acid to a suspendable particle acts as a support and convides a means of segregating the bound polynucleotide target from the convides a means of segregating the bound polynucleotide target from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 47;
                                                         solution
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Query Match Best Local S Matches 20 Sequence 24 BP; 24 A; 5393 AAAAAAATACAAAAAAGAAAAAA 5415 Similarity Conservative 0.3%; 0 C; 0 0; Mismatches Score 18.2; DB 1; Length 24; Pred. No. 3.6e+02; G; 0 T; 0 U; 0 Other; Indels 0 Gaps 0

ARESULT 187
ABK15639/C
ID ABK156
XX ABK156
XX OB-MAY
XX RNA-PC
XX RNA-PC
XW RNA-PC
XW RNA-PC
XW RNA de
XX RNA-PC
XW RNA de
XX PO-AUG
XX WO2002
XX WO3000
XX WO3000
XX WO1; 2 WO3000
XX WO3000 08-MAY-2002 ABK15639; RNA-PCR procedure primer poly(dT)24. ABK15639 standard; DNA; (first entry

RNA-PCR; primer; ss; poly(dT)24; cytostatic; antibacterial; gene therapy; mRNA-CDNA hybrid; gene function inhibition; cancer; PTGS; antisense; high throughput screening; D-RNA; DNA-RNA interference; RdRp; RNA dependent RNA polymerase; posttranscriptional gene silencing.

WO200210374-A2

07-FEB-2002

02-AUG-2001; 2001WO-US024412.

02-AUG-2000; 2000US-0222479P

(UYSC-) UNIV SOUTHERN CALIFORNIA.

Chuong C, Widelitz

WPI; 2002-188740/24.

Generating mRNA-cDNA hybrids for suppressing cancer-related genes, or treating or preventing microbe related genes, comprises thermocycling steps of promoter-linked double-stranded cDNA or RNA synthesis.

Example 5; Page 26; 53pp; English

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC The invention relates to generating mRNA-cDNA hybrids, comprising (a) CC primers complementary to the sense conformation of the nucleic acid template, and one or more promoter-linked primers complementary to the formation of the nucleic acid template, and with an RNA CC promoter, (b) treating the nucleic acid template with the one of more promoter-linked primers complementary to the CC primers to synthesise a first cDNA strand, (c) treating the first cDNA cC primers to synthesise a first cDNA strand, (c) treating the first cDNA cC linked double-stranded nucleic acid, (d) treating the first cDNA cC linked double-stranded nucleic acid, (d) treating the promoter-linked cC double-stranded nucleic acid, (d) treating the promoter-linked cC linked double-stranded nucleic acid, (d) treating the promoter-linked cC pacific mRNA-cDNA hybrids for transcription of the amplified mRNA fragments. The method is useful for preparing high amounts of pure and cC specialic mRNA-cDNA hybrids for transcription of the amplified mRNA fragments. The method is useful for preparing high amounts of pure and cC paces, in treating to preventing microbe related genes, in studying cancer-related cC and eukaryotes in vivo and in vitro, for suppressing cancer-related cC and eukaryotes in troughput screening of gene function in prokaryotes in treating or preventing microbe related genes, in studying cancer related cC andidate molecular pathways with systematic knock out of involved conference, in high throughput screening of gene function in prokaryotes of candidate micrions, for manipulating gene expression in vitro, and corporation to increase the stability and effectiveness of transfected corporation to increase the stability and effectiveness of transfected corporation to increase the stability and effectiveness of transfected corporation to increase the stability and effectiveness of transfected corporation to increase the stability and effectiveness of transfected corporation to increase the stability and effectiveness of transfected cor
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Best Local S
Matches 20
                                                                                                                                                                                                                                              compound activity characterisation; cellular activity; phenotypic attribute; candidate medicine; candidate treatment; multiple biological descriptor; cell marker; ss.
                   26-APR-2000; 2000US-0199778P.
20-FEB-2001; 2001US-00790214.
                                                                                                                                                                                                         Unidentified.
                                                                                                                                                                                                                                                                                                                                Compound activity characterisation-related oligonucleotide SeqID4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 0
                                                                              24-APR-2001; 2001WO-US013248.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADG16129 standard; DNA; 24
                                                                                                                                                                WO200181895-A2
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; Pred. No. 3.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24 T; 0 U; 0 Other;
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EST; expressed sequence tag; ss; polymorphic repeat; tandem repeat; polymorphic marker prediction of ubiquitous simple sequences; POMPO Rep-K; human; genetic disease; nug-treatment; Machado-Joseph; Haw River syndrome; Huntington's disease; fragile-X syndrome; Fredreich's ataxis; myotonic dystrophy; hyperandrogenaemia; spinal atrophy; bulbar atrophy; spinocerebellar ataxia.

Identifying a candidate polymorphic repeat within a coding sequence,

WPI; 2003-208818/20

Garner HR,

Wren JD,

Minna JD,

Fondon JW;

31-DEC-1999; 31-DEC-1999; 29-OCT-2002 US6472154-B1 Homo sapiens

9908-00475947 99US-00475947.

(TEXA) UNIV TEXAS SYSTEM.

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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention relates to a novel method for the characterisation of the activity of a compound on cell. The method involves receiving images of cells with a cellular activity and images of other cells treated with the compound, quantitatively characterising phenotypic attributes of the image of cells with a cellular activity to produce a target phenotype for the cellular activity and that of the image of other cells to produce a second phenotype for the compound, and comparing the two phenotypes to determine whether the compound possesses cellular activity. The invention may be useful for characterising cellular activity of a compound, for determining information about properties of substances based upon the information about structure of living or non-living cells exposed to substances. The invention is also useful for identifying promising candidates in a search for new and better medicines and treatments using multiple biological descriptors from a single cell markers or components.
                                                                                                                                                                                                                                                                                                                                                                                                                      ABX79809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 0 A; 1 C; 0 G; 23 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Characterizing cellular activity of compound, by receiving images of cells with known activity and images of cells treated with compound, characterizing phenotypic attributes of images and comparing the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oestreicher DR,
                                                                                                                                                                                                                                                                                                                                                            EST polymorphic DNA repeat polynucleotide #134.
                                                                                                                                                                                                                                                                                                                                                                                          17-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABX79809 standard; cDNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Fig 18; 139pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CYTO-) CYTOKINETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 3.60
0; Mismatches
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Pred. No. 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .6e+02;
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RESULT 190
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XX ABZ8011
AC ABZ801
XX IMMUNO
XX IMM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention discloses a method for identifying a candidate polymorphic CC repeat within a coding sequence (expressed sequence tag, EST), which CC comprises detecting tandem repeats in a target coding sequence, scoring CC the repeats for polymorphic probability and generating a dataset CC correlating the repeats with polymorphic probability to identify a CC candidate polymorphic repeat. The computational methods (polymorphic CC marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are CC useful for identifying and detecting candidate polymorphic repeats in CC thuman genes, which can be used to understand, treat or eliminate genetic CC diseases, predispositions or adverse drug-treatment reactions. Examples CC of diseases linked to nucleotide repeats are Machado-Joseph, Haw River syndrome, Huntington's disease, fragile-X syndrome, Fredreich's ataxis, CC myotonic dystrophy, hyperandrogenamia, spinal and bulbar atrophy and CC spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are the polymorphic repeats identified for a search of human ESTs
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Best Local S
Matches 20
                                                                 WPI; 2003-268241/26.
                                                                                                                                                                                                                                                                                                   17-AUG-2001; 2001US-0313273P.
03-JUL-2002; 2002US-0393952P.
                                                                                                                                                                                                                                                                                                                                                                                            19-AUG-2002; 2002WO-US026468
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                                                                                                                                                                             (COLE-) COLEY PHARM GROUP INC. (COLE-) COLEY PHARM GMBH. (IOWA ) UNIV IOWA RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2003015711-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Immunostimulation; immune response; natural killer cell; interferon; type 1 interferon; IFN; cancer; infectious disease; allergic disorde immune related disorder; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory oligonucleotide SEQ ID NO:53.
   immunostimulatory nucleic
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20; Conservative
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                                                                                                                     Vollmer J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note=
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Pred. No. 3
      acid,
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useful for preparing
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      þ
   composition
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The present invention describes immunostimulatory nucleic acids of 14-100 cc nucleotides in length comprising the formula 5' XIDCGHX2 3' (I), where XI cc x2 = independently any sequence 0-10 nucleotides; D = nucleotide other than G. Te cytosine; G = guanine; H = nucleotide other than G. The CC immunostimulatory nucleic acid further comprises a sequence consisting of comparising sequence, where N begins with a CGG trinucleotide and is at CG and N positioned immediately 5' to X1 or 3' to X2 and N is a B cell cest 10 nucleotides long and P is GC-rich palindrome containing sequence cc at least 10 nucleotides long. Also described: (1) a pharmaceutical CC composition comprising the immunostimulatory nucleic acid and a carrier; CC and (2) treating an allergic condition. (I) has antiallergic activity and CC can be used in gene therapy. (I) can be used for preparing a composition CC infectious diseases and allergic disorders. (I) also stimulates the CC activation of natural killer cells and the production of type 1 conjugated the production of type 1 conjugated the present sequence represents an immunostimulatory conjugated the production of type 1 conjugated the production of type 1 conjugated the production of type 1 conjugated the parameter of the present sequence represents an immunostimulatory conjugated the production of type 1 conjugated the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1; Page 44; 115pp;
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밁 8 Query Match Best Local S Matches 20 5393 AAAAAAATACAAAAAAAGAAAAAA 5415 24 Similarity AAAAAAAAAAAAAAAAAA 2 0.3%; nilarity 87.0%; Conservative 0; Pred. No. 3.66 0; Mismatches Score 18.2; Pred. No. 3. .6e+02; DB 1 Length Indels 24; 0; Gaps 0,

Sequence

24

BP; 0 A; 0 C; 0

G; 24 T; 0

٦;

0 Other;

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RESULT 191
ACA622
ACA622
XX ACA622
XX ACA622
XX ACA622
XX BS; PC
KW BS; PC
KW BS; PC
KW BS; PC
XX US200:
X
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30-JAN-2003 07-SEP-2001; 2001US-00949305. US2003022318-A1

(EPIC-) EPICLONE

25-JAN-2000; 2000US-00494212.

S Ying S

WPI; 2003-479488/45

Improved polymerase thermocycling reaction for nucleic acid amplification, by thermal cycling of promoter-linked nucleic acid template synthesis and in vitro transcriptional amplification of racid sequences. nucleic

Example 7; Page 14; 28pp; English.

The invention relates to an improved polymerase thermocycling reaction (M1) for linear amplification of nucleic acid sequences, involves denaturing a number of nucleic acid templates (I), combining the denatured (I) with a promoter-containing primer (P1), a primer (P2), a

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RESULT 192
ACD99729/c
ID ACD997
XX Immunc
XX I
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a reverse transcription enzyme, a DNA-dependent DNA polymerase and RNA polymerase, contacting Pl with (I) to generate a number of promoter-containing templates, contacting Pl with the denaturing the promoter-containing templates, contacting P2 with the denatured promoter-containing templates to generate a number of promoter-containing double-stranded DNA templates, where the double-stranded nucleic acid templates are flanked by Pl in one end and P2 in the other end of the other orientation, transcribing the promoter-containing double-stranded DNA templates to form a number of amplified RNA sequences, including the primer region of the promoter-containing double-stranded DNA templates, contacting the amplified RNA sequences with P2 to form a number of cDNAs and a number of DNA-RNA sequences with P2 to form a number of cDNAs and a number of DNA-RNA sequences with P2 to form a number of cDNAs and a number of DNA-RNA sequences with P2 to form a number of cDNA-RNA hybrid templates. The method the promoter-containing the contacting the amplified RNA sequences with P2 to form a number of cDNA-RNA hybrid templates. The method the promoter-containing the contacting the contacting the method templates.
                                                                                                                                                                                                                             Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss
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US2003050268-A1

Treating non-allergic inflammatory diseases, allergic contact dermatitis, latex dermatitis

such as psoriasis, ecz
s or inflammatory bowel

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ACH03285
ID ACHC
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XX ICHC
XX IC
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antiulcer; gene the psoriasis; eczema; inflammatory bowel
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                                                                                   WPI; 2003-521815/49.
                                                                                                                                                                                                                                                                                    29-MAR-2001; 2001US-0279642P.
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Pred. No. 3.6e+02
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administering an

immunostimulatory nucleic acid

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RESULT 194
ACH03284/c
ID ACH032
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Best Local Similarity
Matches 20; Conserv
                                                                  The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 34; 229pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-521815/49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Krieg AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-MAR-2002; 2002US-00112653
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Immunostimulatory nucleic acid #919.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (KRIE/) KRIEG A M. (BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5393 АЛАЛАЛАТАСЛАЛАЛАДАЛАЛАЛ 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence represents an immunostimulatory nucleic acid
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Pred. No. 3.6e
0; Mismatches
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Sequence 24 BP;

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RESULT 195
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                                                                                                                                                            The invention relates to a method of amplification of nucleic acid which comprises primer extension by reverse transcriptase and hybridising an CC oligonucleotide to the single stranded DNA, where the oligonucleotide is blocked from extension at the 3' end. The method is useful for CC protected from degradation throughout the method, a promoter is CC protected from degradation throughout the method. The promoter is CC constructed so that it does not serve as a primer for extension of a sequence that is complementary to the target sequence, i.e. it is CC blocked. The method can be combined with other processes to eliminate the CC plocked. The method can be combined with other processes to eliminate the CC constructed so that it least three otherwise separate enzymatic consecutions can occur consecutively in one phase (i.e., without organic consecution and precipitation), more preferably in the same reaction CC extraction and precipitation), more preferably in the same reaction condified low salt buffer. The present sequence represents the poly A C tract of a mRNA used to illustrate the method of the invention.
Query Match
Best Local S
Matches 20
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Best Local S
Matches 20
                                                                                                               Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Amplification of nucleic acids, extension at the 3' end, useful
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varying reaction condition elimination; poly A tract.
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Pred. No. 3.
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Pred. No. 3.6e+02;
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Best Local S
Matches 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                         ADB36806 standard; DNA; 24 BP
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                               Synthetic
                                                                                                                                                                                                                           04-DEC-2003
                                                                                                                                                                                                                                                                                  ADB36806;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BRAT/) BRATZLER R L. (PETE/) PETERSEN D M. (FOUR/) FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunostimulatory nucleic acid #872
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                                                                                   hypo-responsive
                                                                                                             ds; allergy;
                                                                                                                                                              Immunostimulatory nucleic acid #420
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20; Conserv
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                                                                                   asthma; poly-G nucleic acid; aerosol formulation; ive subject; immunostimulatory.
                                                                                                                                                                                                                           (first entry
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Pred. No. 3.6e+02;
0; Mismatches 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                          WPI; 2003-657977/62.
                                                                                    Bratzler RL,
                                                                                                                                                                          03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                                    02-FEB-2001; 2001US-00776479.
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                                                                                                                                                                                                                                                                US2003087848-A1.
                                                                                                                                                                                                                                                                                                                       ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                 Immunostimulatory nucleic acid #873
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
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                                                                                                               (BRAT/) BRATZLER R L. (PETE/) PETERSEN D M. (FOUR/) FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (BRAT/) BRATZLER R L. (PETE/) PETERSEN D M. (FOUR/) FOURON Y.
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                                                                                       Fouron
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Pred. No. 3.6e+02;
0; Mismatches 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Creating recombination products between two distinct nucleotide sequences, useful in the field of synthetic gene technology, and in assembling a library, or a population or a collection of polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     recombination product; synthetic gene technology; butterfly; biliverdin binding protein; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a method for creating a collection of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; SEQ ID NO 106; 132pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JAN-2002; 2002US-00062188
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Pred. No. 3
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Best Local Simi
Matches 20;
                                   is circularised, forming a second complex (HCZ); treating CP with a cleavage agent, to cut at CS, and adding an extension enzyme (EE) and nucleotide triphosphates (NTPs) to form an extended CP, which is detected. The method is used for detecting (I) that comprises two target domains (TD1, TD2) and (I) that comprises two adjacent target domains. The method is used for detection, genotyping and/or quantification of target sequences, for research, clinical use, quality control or field testing, particularly detection of single-nucleotide polymorphisms. The method permits a high level of multiplexing, and since it provides
                                                                                                                                                                                                                                                                                                                                                                                                                               The invention is directed to novel methods of amplifying and detecting DNA using rolling circle amplification (RCA). The invention relates to detecting a target sequence (I), which involves using a capture probe (CP) that is complementary to an open circle probe and includes a cleavage site. The method comprises: attaching a capture probe (CP) to a substrate, at both ends, where the CP includes one domain complementary to an OCP (open circle probe) and a second domain that contains a cleavage site (CS), to form a device; treating CP with (I) and OCP for form a hybridisation complex (HC); treating HC with a ligase so that OCP form a hybridisation complex (HC); treating HC with a ligase so that OCP form a device; treating CP with (I) and OCP for form a hybridisation complex (HC); treating HC with a ligase so that OCP form a device; treating CP with (I) and OCP for form a hybridisation complex (HC); treating HC with a ligase so that OCP form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (I) and OCP for form a device; treating CP with (II) and OCP for form a device; treating CP with (II) and OCP for form a device; treating CP with (II) and OCP for form a device; treating CP with (II) and OCP for form a device; treating CP with (II) and OCP for form a device; treating CP with (II) 
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                                                                                                                                                                                                                                                                                          The invention relates to methods for stimulating antibody dependent cellular cytotoxicity (ADCC), for modulating immune response and for inducing antigen-specific immune response which involve administering imidazoquinoline agents in conjunction with other agents. The method is useful for stimulating ADCC in a subject having a disorder chosen from asthma/allergy, infectious disease, cancer and warts. The present sequence is an immunostimulatory oligonucleotide used to illustrate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stimulating antibody dependent cellular cytotoxicity, modulating immune response and inducing antigen-specific immune response in subject by administering imidazoquinoline agents in conjunction with other agents.
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RESULT 202

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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a method of prevention or treatment of gastric ulcer comprising administering a nucleic acid to a subject in need for treatment of gastric ulcer. A nucleic acid sample comprising oligonucleotide 2006 was administered to a mouse model by an oral route or a vehicle control. Colonisation of mice by Heliobacter pylori was assessed at time points from 1 day to 1 month after treatment. The ability of the nucleic acid to reduce H. pylori colonisation was assessed. The method is useful for preventing or treating a gastric ulcer on a subject e.g. human or non-human vertebrate animal including dog, cat, horse (equine gastric ulcer syndrome, EGUS), cow, goat, sheep, pig, rabbit, turkey, chicken, primate, rat and mouse. The method effectively treats or prevents gastric ulcers. The present sequence represents an immunostimulatory nucleic acid for the treatment of gastric ulcers
      ss; non-CpG; immunostimulatory; non-palindromic; immune response;
proliferation; differentiation; cytokine; antibody production; B-cell;
plasmacytoid dendritic cell; immunomodulator; gene therapy;
chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                                                                                                                                                                                                                       11-MAR-2004
                                                                                                                                                                                                                                                                                 ADG75922
                                                                                                                                                                                                                                                                                                                                          ADG75922 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24 BP; 0 A; 0 C; 0 G; 24 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 14; 45pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prevention or treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-370798/35.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-AUG-2001; 2001US-00920313.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gastric ulcer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gastric ulcer treatment immunostimulatory nucleic acid #148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2002198165-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Heliobacter pylori.
                                                                                                                                                  Immunostimulatory non-CpG oligonucleotide IMT 177 SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BRAT/)
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PETERSEN D M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ARRAMARARARARARARANAAA 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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Pred. No. 3
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ADG75917/c
ID ADG759
XX ADG759
AC ADG759
XX I1-MAR
XX Non-Cp
XX W SS; Cp
KW prolif
KW plasma
KW chroni
KW plasma
KW renal
XX renal
XX Synthe
XX Synthe
XX WO2003
XX I1-DEC
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Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to novel immunostimulatory oligonucleotides that contain a non-palindromnic sequence motif. Specifically, it refers to DNA oligonucleotides (without a Cpg motif), which can stimulate an immune response in animals of the order of primate, including humans. The immune response is characterised by the proliferation, differentiation, cytokine and antibody production in B-cells, as well as cell differentiation and cytokine production in plasmacytoid dendritic cells. The present invention describes immunomodulator compositions that also comprise an antigen selected from, for example, viruses, bacteria, parasites, tumour cells and glycolipids. As such, these DNA oligos can be used in gene therapy for inducing B-cell activation, treating, preventing or ameliorating an immune system disorder or a tumoural disease including chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonucleotide sequence is an immunostimulatory non-CpG carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g
                                        WO2003101375-A2.
                                                                                                                              88; CDG; immunostimulatory; non-palindromic; immune response; proliferation; differentiation; cytokine; antibody production; plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                                                                                                                                                                                                                                                                                                                                     ADG75917 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 1 A; 1 C; 1 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAY-2002; 2002CA-02388049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAY-2003; 2003WO-EP005691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-DEC-2003
                                                                            Synthetic
                                                                                                                                                                                                                          Non-CpG DNA oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              variant DNA oligo, used in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     renal cell carcinoma.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5403
                                                                                                              cell carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAAAAAGAAAAATGAAAATAAA 5425
                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAAAACAAAATGAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
ilarity 87.0%;
Conservative
                                                                                                                                                                                                                                                            (first entry)
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Pred. No. 3.6e
0; Mismatches
                                                                                                                                                                                                                          IMT 053 SeqID 19.
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.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 24;
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06-DEC-1993; 06-DEC-1994;

94WO-US014096.

15-JUN-1995 WO9515970-A1 misc_feature

Location/Qualifiers

note= "biotinylated

Synthetic

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RESULT 205
AAQ95960/c
ID AAQ959
XX AAQ959
XX AAQ959
XX Oligon
XX Immobi
XX Immobi
XX Immobi
XX Immobi
XX Synthe
XX Synthe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cc contain a non-palindromic sequence motif. Specifically, it refers to DNA coligonuclectides (without a CpG motif), which can stimulate an immune response in animals of the order of primate, including humans. The immune can dantibody production in B-cells, as well as cell differentiation, cytokine and antibody production in B-cells, as well as cell differentiation and cytokine production in plasmacytoid dendritic cells. The present artisen selected from, for example, viruses, bacteria, parasites, tumour cells and glycolipids. As such, these DNA oligos can be used in gene therapy for inducing B-cell activation, treating, preventing or ameliorating an immune system disorder or a tumoural disease including chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonuclectide sequence is the non-CpG DNA oligo IMT cos3, used in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 20; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAY-2003; 2003WO-EP005691.
                                                                                                                                                                                                                                                                                                                                      Oligonucleotide biotin-T25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to novel immunostimulatory oligonucleotides that contain a non-palindromic sequence motif. Specifically, it refers to DN
                                                                                                                                                                                                                                                               Immobilisation; solid support; salt; cationic detergent; capture probe;
hybridisation; primer; template-dependent extension; target organism;
sequencing; genetic polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                         06-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 3; SEQ ID NO 19; 139pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                               standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               25
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; Pred. No. 3.6e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                     for novel nucleic acid immobilisation method
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RESULT 206
AAX84258/c
ID AAX842
XX AAX842
XX AAX842
XX NCk ag
KW Lherag
XX Synthe
OS Homo E
XX W09931
XX 11-DE(
XX I1-DE(
XX IX-DE(
XX I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotides AAQ95959-82 are examples of oligonucleotides used in a novel method of immobilising oligonucleotides to a solid support by incubating in the presence of a salt or cationic detergent e.g. NaCl (50-250 mM, pH 6.0-8.0) or 1-ethyl-3-(3'-dimethyl amino proppl)-1,3 carbodiimide hydrochloride (BCD). The oligonucleotides can be capture probes for detection of specific nucleic acids by hybridisation or can be primers for template-dependent extension from the immobilized primers on nucleic acid from a target organism. The method can be used in hybridisation assays, sequencing and analysis of genetic polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Immobilising synthetic nucleic acid on solid support - by incubation in presence of salt or cationic detergent, for use in hybridisation assays, sequencing and analysis of polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-SEP-1999
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                                                                                 Example 1;
                                                                                                                                                                                                                                                                            Sakaki Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-JUN-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W09931239-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nck associated protein 1; Napl; human; apoptosis; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer for human Nck associated protein 1 coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX84258;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX84258 standard; DNA; 25 BP
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                                                                                                                                       Alzheimer's disease
                                                                                                                                                              Protein inhibiting apoptosis, useful
                                                                                                                                                                                                                   WPI; 1999-395181/33
                                                                                                                                                                                                                                                                                                                                                                                                              15-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             therapy; PCR primer; ss.
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                                                                                                                                                                                                                                                                                                                              (КУОМ ) КУОМА НАККО КОСУО КК
(SAKA/) SAKAKI Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MOLE-) MOLECULAR TOOL INC.
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                                                                                 Page 76; 90pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 18.2; DB 1;
Pred. No. 3.7e+02;
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                                                                                                                                                                   the
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                                                                                                                                                                diagnosis
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                                                                                                                                                                and treatment
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This sequence represents a PCR primer used to isolate DNA encoding the human Nck associated protein 1 (Napl) of the invention. Napl inhibits

RESULT 208
AAA39306/c
ID AAA393
XX
AC AAA393
XX
AC AAA393
XX
TI 11-SEP

AAA39306 standard;

RNA;

25 ₽₽

11-SEP-2000 AAA39306;

(first entry)

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ANX842E0/C
ID ANX842
XX ANX842
XX ANX842
XX ANX842
XX OR-SEP
XX NCk as
KW Nck as
KW therap
XX Synthe
OS Synthe
OS Synthe
OS Homo s
XX WO9931
XX HO9931
XX HO9931
XX Frotes
PR 15-DEC
XX I1-DEC
XX III-DEC
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Best Local
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Best Local (
                                                                                                     Matches
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                                                                                                                                                                                                     Sequence 25 BP; 0 A; 1 C; 0 G; 24 T; 0 U; 0 Other;
                                                                                                                                                                                                                                               This sequence represents a PCR primer used to isolate DNA encoding human NCk associated protein 1 (Nap1) of the invention. Nap1 inhibi apoptosis. The protein can be used in the investigation, diagnosis treatment (e.g. by gene therapy) of Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 77; 90pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1999-395181/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sakaki Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24-JUN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nck associated protein 1; Nap1; human; apoptosis; Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primer for human Nck associated protein 1 coding sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein inhibiting apoptosis, useful in the diagnosis and treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            therapy; PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (KYOW ) KYOWA HAKKO KOGYO KK
(SAKA/) SAKAKI Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lomo sapiens
                                                  5393 AAAAAAATACAAAAAAAAAAAAAA 5415
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24
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                                                                                                                          Similarity
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  AAAAAAAAAAAAAAAAAAAAA 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97JP-00363183
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                                                                                                                       0.3%;
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                                                                                                                       Score 18.2;
Pred. No. 3.
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Pred. No. 3
                                                                                                  Mismatches
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                                                                                                                                               Length 25;
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                                                                                                     Indels
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RESULT 209
AAZ30267/c
ID AAZ302
XX AAZ302
XX AAZ302
XX II-FEB
XX Captur
XX C-myc
XX C-myc
XX M Cuclei
XX Synthe
XX Synthe
PN WO9951
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  isolated sequences are useful for enzymatic amplification. (I) is capable of rapidly binding nucleic acids in the sample and placing them in close proximity to target probes on the reagent, thus enabling binding under low stringency. Combination of rapid capture and concentration of polynucleotides with selective targeting of analyte molecules, greatly enhances the isolation process. Non-ionic morpholino oligomers used as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a rapid pairing reagent (I) for the isolation or detection of a polymucleotide (PN) analyte molecule having selected target base sequence, in a sample containing the analyte molecule and non-target polymucleotide, comprising a capture component (A) and target-specific probe (B) linked to a solid substrate. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rapid
                                                                                                                c-myc fusion; non-nucleoside spacer; capture probe;
nucleic acid-protein fusion; ribosome display particle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reagent for rapidly detecting or isolating target nucleic acid sequences in polynucleotide-containing sample, comprises capture component and target-specific probe linked to solid substrate.
                   14-OCT-1999
                                                                                  Synthetic
                                                                                                                                                                  Capture probe CP125 specific for c-myc fusion targets
                                                                                                                                                                                                    11-FEB-2000
                                                                                                                                                                                                                                    AAZ30267;
                                                                                                                                                                                                                                                                    AAZ30267 standard; DNA; 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 25 BP; 0 A; 0 C; 0 G; 0 T; 25 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probes are not extended by polymerases and therefore do not interfere with amplification of target molecule. AAA39306 to AAA39316 represent oligonucleotides used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 3; Col 17; 24pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-364413/31.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-NOV-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rapid detection; probe; target nucleic acid; enzymatic amplification;
                                                   WO9951773-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (AVIB-) AVI BIOPHARMA INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .solation; detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                      5393 AAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         capture probe designated Neu-probe SEQ ID NO:1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Summerton JE,
                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 18.2; DB 1;
Pred. No. 3.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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The present sequence represents a capture probe specific for a c-myc (fusion target. It is used in the method of the invention. The specification describes the use of non-nucleoside spacers to immobilise a marray of capture probes on a solid support. The solid support carries an array of capture probes, each consisting of non-nucleoside spacers plus an oligonucleotide to which a nucleic acid-protein fusion or a ribosome display particle is bound. Non-nucleoside spacers prevent interaction of proteins with the support surface, ensuring efficient hybridisation between capture probes and bound nucleic acid/protein fusions, while minimising denaturation of the protein which may then adopt its native folded structure. The arrays of capture probes are used to screen for interactions between proteins and compounds (e.g. other proteins, ligands or nucleic acids), particularly to identify potential therapeutic agents, enzyme substrates or unknown proteins that interact with drugs, but also for diagnosis (detecting disease-associated to proteins, but also for diagnosis (detecting in a sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Attaching capture probes to solid phases through non-nucleic spacers, producing arrays for detecting interactions of proteins with other compounds, e.g. for drug screening.
Sequence 25 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 8; Page 29; 57pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000-013048/01.
                                              and for quantifying target molecules in a sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wagner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0080686P
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문 Ś Matches Query Match Best Local Similarity 5393 AAAAAATACAAAAAAGAAAAAA 5415 25 20; AAAAAAAAAAAAAAAAAAAAA 3 Conservative 0.3%; Score 18.2; DB 1; Pred. No. 3.7e+02; 0; Mismatches 3 DB 1; Length 25; Indels 0 Gaps 0

ABK49986/c RESULT 210 chromatography Glass-synthetic resin membrane; pore glass-polytetrafluoroethylene resin; Example oligonucleotide #2 prepared on glass-synthetic resin membrane. ABK49986; ABK49986 standard; DNA; 15-JUL-2002 (first entry) membrane; PTFE; ss. 25

17-JUL-2001 US6261497-B1 Synthetic Wong YN, 21-FEB-1996; 04-MAY-1999; (CPGC-) CPG INC. Chen R; 96US-00604440. 9908-00305219.

WPI; 2001-534961/59

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RESULT 21
ABV80873
ID ABV8V
XX ABV8V
XX ABV8V
XX ABV8V
XX ABV8
DT 03-:
XX Humm
XX Humm
XX Pros
XX Pros
XX Pros
XX S Home
XX BP1:
XX S 10-:
PR 30-:
PR 30
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Best Local S
Matches 20
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                         Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and for treating subjects having defects in HTPL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; gene therapy; tumour suppressor; HTPL; chromosome 10p12.1; human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                              30-JAN-2001;
30-JAN-2001;
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30-JAN-2001;
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; 2001WO-US000664.
; 2001WO-US000667.
; 2001WO-US000667.
; 2001WO-US000668.
; 2001WO-US000668.
; 2001WS-00064761.
; 2001US-0327898P.
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Pred. No. 3.7e+02;
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Best Local Similarity
                                                                                                                                                                                              30-JAN-2001; 2001WO-US000663.
30-JAN-2001; 2001WO-US000664.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000669.
23-WAX-2001; 2001WO-US000669.
23-WAX-2001; 2001US-00864761.
09-OCT-2001; 2001US-0327898P.
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                                                                 WPI; 2002-676582/73.
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                                                                                                                                                           AEOMICA
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PL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). H
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Pred. No. 3
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Novel isolated human testis expressed Patched like protein (HTPL), useful for identifying agonist and antagonist and specific binding partners, and

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RESULT 213
ABA03917/c
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Best Local
                                                                                                                                                                             Human connexin 9 and encoded polynucleotide, treatment of malignant tumor, hemopathy, HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200181538-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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                                                                                                Example 2;
                                                                                                                                                          diseases and
                                                                                                                                                                                                                                                                          WPI; 2002-034440/04.
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                                                                                            Page
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                                                                                                                                                          inflammation
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                                                                                         12; 32pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18.2;
No. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .7e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Length 25
                                                                                                                                                                                applicable in diagnosis and infection, immunological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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The present invention describes human connexin 9 virucidal, immunomodulatory, antiinflammatory and

(I). (I) has | haemostatic

cytostatic, activities.

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RESULT 214
ACK28658
ID ACK2865
XX ACK286
XX ACC28
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The invention discloses a microarray comprising a plurality of nucleic cold probes including one of 2,018,500 fully defined sequences, or its comprised match, perfect mismatch, antisense match or antisense mismatch. CC Also disclosed is a method of gene expression analysis. The array is used compounds. The nucleic acid probes are specifically designed for analysis of genetic variation or in hybridisation to a DNA library, compounds. The nucleic acid probes are specifically designed for analysis of the nucleic acid probes are specifically designed for analysis of probes and detecting the hybridisation. The nucleic acid probes and detecting the hybridisation. The nucleic acid probes are attached to a solid support. The analysis comprises monitoring compression levels, identifying biallelic markers or polymorphisms, cor family members of a gene and a cross-species comparison. Each of the nucleic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dottothybridisation to identify or detect the sequence or specific mutations of any gene, in mapping the 5' termini of mRNA molecules by comparisons or in screening cONA or genomic libraries or subclones containing segments of DNA that have been contained the sequence presented is one of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               吊
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Best Local Simi
Matches 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (I) and the polynucleotide encoding it (II) are applicable in the diagnosis and treatment of malignant tumour, haemopathy, HIV infection, immunological diseases and various inflammations. The present sequence represents a PCR primer for human connexin 9, which is used in an example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New array of nucleic acid probes, useful for in Southern, Northern or dot-blot hybridization to sequence or specific mutations of any gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACK28658 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-567953/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-MAR-2001; 2001US-0276759P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cross-species comparison.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human microarray DNA oligonucleotide SEQ ID NO 128639.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (AFFY-) AFFYMETRIX INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5392 ТАЛАЛАЛАТАСАЛАЛАДАЛАЛА 5414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 128639;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9pp; English
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Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      situ hybridization, identify or detect
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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RESULT 215
ADC5409/c
ID ADC540
XX ADC540
XX ADC540
XX Oligon
XX S9nthe
XX JP2003
XX GAMAI
XX CANO
XX Probe
PT liquid
PT angle
PX Angle
XX Examp
XX Examp
XX Examp
XX CC The 1
CC prese
XX Seque
RESULT 216
ADC54008
ID ADC540
XX
AC ADC540
XX
AC ADC540
XX
DT 18-DEC
XX
DE Oligon
XX
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                                                                                                                                                                                   Query Match
Best Local S
Matches 20
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Best Local Similarity
Matches 20; Conserv
            Oligonucleotide
                                                                                                                                                                                                                                 Sequence 25 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                       The invention relates to a novel probe carrier and the method for manufacturing the carrier. The invention enables stable discharge of solution, and removes liquid droplets adhering to discharge nozzle. The present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                     Probe carrier manufacturing method for inkjet liquid discharge head in direction orthogonal angle satisfying predetermined relation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid probes incorporated in the microarray. Note: The sequence data for this patent can also be obtained in electronic format directly from USPTO at seqdata.uspto.goc/sequence.html
                                    18-DEC-2003
                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-MAR-2002; 2002JP-00093023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP2003035711-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADC54009;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADC54009 standard; DNA;
                                                                                ADC54008 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2001; 2001JP-00094400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probe
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                                                                                                                                                     5393 AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                2; SEQ ID NO 4; 17pp; Japanese.
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                                                                                                                                         AAAAAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  carrier;
                                                                                                                                                                                   0.3%;
nilarity 87.0%;
Conservative
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                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first
          of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A, 6 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   discharge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entry)
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                                                                                25 BP
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                                                                                                                                                                                   Pred. No. 3.76
0; Mismatches
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Pred. No. 3.7e+02;
0; Mismatches 3;
                                                                                                                                                                                                Score 18.2;
Pred. No. 3
             SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO:4.
             븅
                                                                                                                                                                                               .7e+02
                                                                                                                                                                                                           DB 1;
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to scanning direction, at
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RESULT 217
ADF39737/c
ID ADF397
XX ADF397
XX Probe
XX Probe
XX Probe
KW Probe
KW Simult
XX Synthe
DX JP2003
XX JP2003
XX JP2003
XX WPI; 28-MAF
XX CANO
XX WPI; 2
PT Giagne
PT Giagne
PT Giagne
XX BEXamp:
XX Examp:
XX Examp:
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Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                            Probe array; microarray; DNA array; DNA chip; manufacture; electrostatic adsorption mechanism; DNA analysis; simultaneous gene detection; probe; ss.
                                                              Manufacturing of probe carrier for carrying probes for base sequence analysis of genetic deoxyribonucleic acid and simultaneous multiple diagnosis of gene by ink jet process while removing mist of probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 25 BP; 25 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel probe carrier and the method for manufacturing the carrier. The invention enables stable discharge of solution, and removes liquid droplets adhering to discharge nozzle. present sequence is used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Probe carrier manufacturing method for inkjet liquid discharge head in direction orthogonal angle satisfying predetermined relation.
                                                                                                                                                                                                     28-MAR-2001; 2001JP-00094401.
                                                                                                                                                                                                                                        28-MAR-2002; 2002JP-00093024.
                                                                                                                                                                                                                                                                                                            JP2003014773-A.
                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Probe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADF39737
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; SEQ ID NO 3; 17pp; Japanese.
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                                                                                                                                                                                                                                                                          15-JAN-2003
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                                                                                                                                                                      (CANO ) CANON KK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probe carrier; discharge.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5393 AAAAAATACAAAAAGAAAAA 5415
                                                                                                                                      2003-496695/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003-535999/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               probe array using novel method.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 18.2; DB 1;
Pred. No. 3.7e+02;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                system, involves scanning to scanning direction, at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                 inkjet system;
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Example

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RESULT 218
ADF39736
ID ADF397
XX ADF397
XX Target
XX Probe
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XX Probe
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Best Local
                                                                    Query Match
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                                                                                                                                                                                              The invention relates to a method and device for the manufacture of a probe array. The method involves using an inkjet system to discharge a probe solution through a solution discharging head, so as to form a number of probes on a solid matrix. Mists of the probe solution generated during probe solution discharge are caught by an electrostatic adsorption mechanism. The method and device are suitable for manufacturing probe arrays for analysing DNA sequences, and for the simultaneous detection of multiple genes. The method and device of the invention prevent the scattering of probe positions and the mixing of different probe solutions. The present sequence is related to the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manufacturing of probe carrier for carrying probes for base sequence analysis of genetic deoxyribonucleic acid and simultaneous multiple item diagnosis of gene by ink jet process while removing mist of probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Probe array; microarray; DNA arr
electrostatic adsorption mechani
simultaneous gene detection; ss.
                                                                                                                                     Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; SEQ ID NO 3; 15pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP2003014773-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Target DNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 25 BP; 0 A; 0 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-496695/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAR-2001; 2001JP-00094401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAR-2002; 2002JP-00093024.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-FEB-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF39736;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADF39736 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (CANO ) CANON KK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
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                                    Similarity
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                                                                                                                                     BP;
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                                                                                                                                        25
                                                                                                                                     A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA; 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #3,
                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    capable of hybridising to probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA array; DNA chip; man mechanism; DNA analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     먐
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Score 18.2; DB 1
Pred. No. 3.7e+02
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 18.2;
Pred. No. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chip; manufacture; inkjet system;
                                                                DB 1; Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ω
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25;
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Conservative

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RESULT 219
AD081145 c
ID AD081145 s
XX
AC AD081145;
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DT 29-JUL-200
XX
Prion prot
XX
Gyene typin
XM disease pi
XM disease pi
XM disease pi
XM milk prote
XM microsatel
XX
DE1023671:
XX
DE1023671:
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O9-AUG-20
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O9-AUG-20
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O9-AUG-20
XX
PM 09-AUG-20
XX
PM 09-AUG-20
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PM 09-AUG-20
XX
O9-AUG-20
XX
The inven
CC Thormone
CC as templa
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CC more pML;
CC include p
CC disease
CC but also
CC particula
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Sequence
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                                                                                                                                                                                                                            The invention describes a method of typing (M1) a gene (I) that has one come more polymorphic microsatellite loci (PML). The method comprises: PCR camplification of at least one DNA region of (I) that includes PML, using as template a DNA sample containing at least one segment of (I); and cast energy of determining the length of the resulting amplicon(s). Also described are: a method of determining (M2) microsatellite markers (MM) for prediagnosis ton to a disease, associated with a gene that includes one or more PML; and prediagnosis (M3) of diseases associated with gene that include PML. The method is used to identify microsatellite markers, in a conclude PML. The method is used to identify microsatellite markers, in a conclude PML. The method is used to identify microsatellite markers, in a conclude PML. The method is used to identify microsatellite markers, in a conclude PML. The method is simple that the prediagnosis of such diseases, especially prion diseases but also cystic fibrosis, malignant hyperthermia syndrome in pigs and metabolic diseases; also to type genes that encode milk proteins, concents semically less expensive than known methods based on sequencing. This sequence represents a prion protein polymorphic microsatellite marker
                                                                Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                disease predisposition; microsatellite marker; prion disease; cystic fibrosis; malignant hyperthermia syndrome; metabolic disease; milk protein; hormone; transcription factor; pT7-blue-vector; sheep;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 9; Page 50; 64pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Geldermann H, Preuss S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                microsatellite;
                                                                                                                                                                                                                consensus sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Typing genes that contain polymorphic microsatellite loci, useful for identifying predisposition to disease, by amplification and determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene typing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Prion protein polymorphic microsatellite marker consensus sequence #23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-2004
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                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5393
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAAAAAAAAAAAAAAAAAA
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                                                                  Conservative
                                                                                                                                                                 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polymorphic microsatellite loci; PML;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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                                                                                                                                                               A; 0
                                                                                    0.3%;
                                                                                                                                                               C; 0
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                                                                0;
                                                                                                                                                                 G; 25 T; 0 U;
                                                             Score 18.2; DB 1;
Pred. No. 3.7e+02;
0; Mismatches 3
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                                                                                                                                                                 0 Other;
                                                                                                                 1;
                                                                                                                 Length
                                                                     Indels
                                                                  0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          determining
                                                                Gaps
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RESULT 221
ADQ77891
ID ADQ778
XX
AC ADQ778
AX
AC ADQ778
XX
O9-SEF
XX
DE PCR pr
XX
                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                     This invention relates to a novel mini-sequencing type DNA coligonucleotide chip. Specifically, it refers to a chip that is useful for detecting methylation of promoter CpG islands occurring in multiple CC genes. The present invention describes using oligonucleotide primers to CC constitutes treating DNA of the target gene and promoter CpG islands, this CC constitutes treating DNA of the target gene with sodium bisulfite in CC constitutes treating DNA of the target gene with sodium bisulfite in CC amplify the sodium bisulfite treated DNA and sequencing the PCR product to confirm the hypomethylation site of the promoter CpG islands of CC multiple genes. Accordingly, the chip comprises primer sequences designed CC from these PCR products that have amine linkers of 12 carbons attached to CC the 5'-terminal, which are spotted onto the glass slide coated with 3-cc aminopropyltrimethoxylan and 1,4-dissothiocynanate using an array robot. CC minopropyltrimethoxylan and 1,4-dissothiocynanate using an array robot. CC accurately and rapidly detecting methylation of CpG islands of multiple CC genes. This oligonucleotide sequence is a PCR primer used on the biochip, CCC given in an exemplification of the invention.
                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                            Sequence 25 BP; 18 A; 4 C; 0 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minisequencing type oligonucleotide chip for detecting methylation of promoter CpG islands of multiple genes, useful for detecting cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-MAY-2002; 2002KR-00025108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mini-sequencing; CpG island; methylation specific PCR; MSP; multiplex MSP PCR; cancer; PCR; primer; 88; microarray chip.
                                                     09-SEP-2004
                                                                                     ADQ77891;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; SEQ ID NO 643; 248pp; Korean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-095256/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Choi HI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2002; 2002KR-00009132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KR2003069752-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer amplifies promoter CpG islands of cancer related genes Seg643.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-SEP-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADQ77961 standard; DNA; 25
                 PCR primer amplifies promoter CpG islands of
                                                                                                                       ADQ77891 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GOOD-) GOODGENE INC
                                                                                                                                                                                                                            5389 AATTAAAAAAATACAAAAAAAGAA 5411
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                                                                                                                                                                                                          ACTTANANANATAANAAAAACAA 24
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                                                                                                                                                                                                                                                                            Conservative
                                                     (first entry)
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                                                                                                                     DNA; 25 BP
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Pred. No. 3.7e+02;
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                                                                                                                                                                                                                                                                                                              DB 1;
                   cancer related genes Seq573.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amplify the sodium bisuffite treated DNA and sequencing the PCR product to confirm the hypomethylation site of the promoter CpG islands of multiple genes. Accordingly, the chip comprises primer sequences designed from these PCR products that have amine linkers of 12 carbons attached to the 5'-terminal, which are spotted onto the glass slide coated with 3-aminopropyltrimethoxylan and 1,4-disothhocyanate using an array robot. The resulting minisequencing chip is useful for detecting cancer, thereby accurately and rapidly detecting methylation of CpG islands of multiple genes. This oligonucleotide sequence is a PCR primer used on the biochip, given in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mini-sequencing; CpG island; methylation specific PCR; MSP; multiplex MSP PCR; cancer; PCR; primer; ss; microarray chip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to a novel mini-sequencing type DNA oligonucleotide chip. Specifically, it refers to a chip that is useful for detecting methylation of promoter CpG islands occurring in multiple genes. The present invention describes using oligonucleotide primers to determine the position of a target gene and promoter CpG islands, this constitutes treating DNA of the target gene with sodium bisulfite in order to carry out methylation specific (MSP) PCR or multiplex MSP PCR to
                                                                                                                                                                                              03-OCT-2002
26-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minisequencing type oligonucleotide chip for detecting methylation of promoter CpG islands of multiple genes, useful for detecting cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-MAY-2002; 2002KR-00025108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unidentified.
 04-DEC-1986;
                                08-JUL-1987
                                                                                               Synthetic
                                                                                                                           Hybridisation,
                                                                                                                                                             Sequence of scissile link probe MRC060 (HL).
                                                                                                                                                                                                                                               AAN70276
                                                                                                                                                                                                                                                                             AAN70276 standard; DNA; 26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-095256/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2002; 2002KR-00009132.
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 86EP-00116906.
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70275/с
                                                               Synthetic linked by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The patent claims a new molecule of formula (NA1---S---NA2)n. NA1 and NA2 are noncomplementary nucleic acid sequences; ---S--- a scissile linkage; n= 1 or 1,000, which is used for the detection of specific DNA or RNA sequences in a test soln. The scissile link probes may be PL (Permanent Linkage to Solid Support) or HL (Hydrolysable Linkage to Solid Support). The differential liability of DNA and RNA may be exploited in a heterogenous system when the scissile linkage is an RNA molecule. In the examples, counter probe molecules 9 through 16 were used to determine suitable hybridisation conditions. (Updated on 03-OCT-2002 to add missing
 The patent claims a new molecule NA2 are noncomplementary nucleic linkage; n= 1 or 1,000, which is
                                                                                                                                                                                                                                              Synthetic.
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26-MAY-1991
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                                                                                                                                        MEIOGENICS INC.
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                                                              nucleic acid probes a scissile linkage.
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                                                                                                                                                                                                                                                                                     scissile link probe MRC059 (HL).
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(first en
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                                                                                                                                                                                                                                                                  probe; ss.
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Pred. No. 3.
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3.7e+02;
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probe MRCO59 is bound by a hydrolysable linkage to a solid support at its 3 and. It is used by reacting excess probe with a target nucleic acid; nicking hybridised probe at least once within a predetermined sequence to form 2 or more probe fragments hybridised to the target sequence, which results in the probe fragments becoming hybridised to another probe; and identifying probe fragments, so detecting the target sequence. The probe can react with target sequence to complete a cycling sequence. Using this system, sensitivity of 10 exp. -19 to 10 exp. -20 molecules of target can

Disclosure; Page 24; 34pp;

English.

Detecting target nucleic acid molecules - using excess nucleic acid probes and nicking to complete a cycling s

complementary

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RESULT 225
AAN92242/c
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31-OCT-2002
25-APR-1990
        probe MRCO60 is bound by a hydrolysable linkage to a solid support at its 3' end. It is used by reacting excess probe with a target nucleic acid; nicking hybridised probe at least once within a predetermined sequence to form 2 or more probe fragments hybridised to the target sequence, which results in the probe fragments becoming hybridised to another probe; and identifying probe fragments, so detecting the target sequence. The probe can react with target sequence to complete a cycling sequence. Using this system, sensitivity of 10 exp. -19 to 10 exp. -20 molecules of target can be obtd. The probe is cleavable at the ribonucleotides by a ds RNase, eg RNase H or ExoIII. (Updated on 31-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                          Detecting target nucleic acid molecules - using excess complementary nucleic acid probes and nicking to complete a cycling sequence.
                                                                                                                                                                                                                                                             Duck P,
                                                                                                                                                                                                                                                                                                                                                                                                                                              misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    misc_feature
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               be obtd. The probe is cleavable at the ribonucleotides by a ds RNase, RNase H or ExoIII. (Updated on 31-OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                   Disclosure; Page 24; 34pp; English.
                                                                                                                                                                                                                                                                                                                 29-APR-1988;
                                                                                                                                                                                                                                                                                                                                          29-APR-1988;
                                                                                                                                                                                                                                                                                                                                                                       02-NOV-1989
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Probe MRCO60; solid
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                                                                                                                                                                                                                                                                                       (MEIO-) MEIOGENICS
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20; Conservative
                                                                                                                                                                                                                                                             Bender R;
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(revised)
(first en
                                                                                                                                                                                                                                                                                                                 88US-00187814.
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17. .26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag= c
/note= "deoxyribonucleotides."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= a
/note= "deoxyribonucleotides."
13. .16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 18.2; DB 1;
Pred. No. 3.7e+02;
0; Mismatches 3;
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RESULT 226
AAT93819/G
ID AAT938
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                                                             CC generic formula, in the 3'.5' or 5'.3' direction: (GaTa')a''.-(GbTb')b''.-
CC (GcTc')c''-(GdTd')d''.-(GeTe')e''-(GfTf')f''- (G-GTg')g''-N', where: N and
CC (GcTc')c''-(GdTd')d''.-(GeTe')e''-(GfTf')f''- (G-GTg')g''-N', where: N and
CC different from each other; a, b, c, d, e, f, and g = 0-10, equal or
CC different from each other; a', b, c', d', e', f', and g' = 0-20, equal or
CC different from each other; a', b', c', d', e', f', and g' = 0-30, equal
CC cor different from each other; a'', b'', c'', d'', e'', f'', and g'' = 1-
CC 16, equal or different from each other; The oligonucleotides are believed
CC to selectively bind and sequester some proteins which are essential to
CC the viability and growth of tumoural cell line. They have specific and
CC elective cytotoxic activity against tumour cells, and can be used for
CC treating tumours of the liquid type, in particular of lymphoblastic
CC origin, and of solid type, in particular of lymphoblastic
CC origin, and of solid type, in particular of 15 micromolar,
CC phosphodiester oligonucleotide, at a concentration of 15 micromolar,
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
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CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumoural cells by 76%, which is detectable 48
CC reduced growth of CCRP-CEM tumour
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Best Local S
Matches 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     liquid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New phospho:di:esteric oligo:nucleotide(s) - which exert a specific and selective cytotoxic effect on tumour cells, for treating both solid and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1997-319771/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Scaggiante B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9720924-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Phosphodiester; selective binding; cell viability; growth; tumoural cell line; cytotoxic activity; tumour cell; lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antitumoural phosphodiester oligonucleotide 9 with cytotoxic activity.
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24-FEB-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 5; 38pp; English.
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(first entry)
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Pred. No. 3.7e+02;
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Query Match

Sequence 26

BP; 0 A; 0 C; 2 G; 24 T; 0 U;

0 Other;

0.3%;

Score 18.2;

DB 1; Length 26;

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RESULT 227
AAXO7466/c
ID AAXO74
XX AAXO74
XX BS124;
XW BS124;
XW BS124;
XW BS.

OS Synthe
XX Synthe
YX HO9859
XX IS-JUN
XX IS-
RESULT 228
AAX78723/c
ID AAX787
XX
AC AAX787
AC AAX787
DT 03-SEP
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Granados EN, Hodges SC, K
Scheffel CP, Stroupe SD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence is that of an oligonucleotide used in the isolation of BS124-specific BST clone. It is useful for detecting, diagnosing, staging, preventing or treating, or determining predisposition to diseases or conditions of the breast, such as breast cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated BS124 polynucleotides diagnosing, preventing or treating such as breast cancer.
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Pancreatic disease; PA153; human; cytostatic; detection; antigen; anti-PA153; antagonist; therapy; treatment; tumour; metastasis;
                                                                             Human pancreatic PA153 EST-specific clone primer 12.
                                                                                                                                  03-SEP-1999
                                                                                                                                                                                                                                     AAX78723 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human BS124
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                                                                                                                                                                                                                                                                                                                                                                AAAAAAAAAAAAAAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 0 A; 0 C; 1 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      specific
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                                                                                                                                (first entry)
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                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST clone oligonucleotide.
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Yu H;
                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2; DB 1;
Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Colpitts TL, Friedman ass MR, Kratochvil JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 3.7e+02;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and polypeptides - used for detecting, diseases or conditions of the breast,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Friedman PN, Gordon J; hvil JD, Russell JC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 229
AAF77536/c
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XX AAF775
XX AAF775
XX CDNA 1
XX SINGle
XX Synthe
PN US6197
XX US6197
XX CO-NON
XX CO-NON
XX CO-NON
XX CO-NON
XX CLINS,
PA (LINS,
PA (CHUO,
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes novel contiguous and partially overlapping cDNA sequences and their encoded polypeptides, designated PA153, transcribed from human pancreatic tissue and which have cytostatic activity. The PA153 polynucleotides, proteins and antibodies are all useful in methods of detection. Detection of PA153 polynucleotide, antigens or anti-PA153 antibodies in a sample is indicative of pancreatic disease. PA153 antibodies (antagonists) can also be used in vivo for therapeutic use, e.g. treatment of pancreatic disease, tumours or metastases. Antisense PA153 polynucleotides can be used in gene therapy of pancreatic diseases. AAX78712-X78725 represent primers used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Billing-Medel PA, Cohen M, Col
Granados EN, Hodges SC, Klass
Russell JC, Stroupe SD;
                                                                                                                                                                                                cDNA library production; SCLA; gene chip technology; differential screening; pathological diagnosis; genetic identification; single-cell cDNA library amplification; ds.
                                                                                                                                                                                                                                                              CDNA library production method related oligonucleotide
                                                                                                                                                                                                                                                                                                                                                        AAF77536 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene therapy;
                                                                                                          06-MAR-2001
                                                                                                                                      US6197554-B1
                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PA153 cDNA transcribed from pancreatic tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1999-405041/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                               20-NOV-1998;
                                                                            20-NOV-1998;
                                                                                                                                                                                                                                                                                            23-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ABBO ) ABBOTT LAB.
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 (LINS/) LIN S. (CHUO/) CHUONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                               5393 AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                            (first entry)
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                                               98US-00197951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            97US-00990568
                                                                             98US-00197951.
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                                                                                                                                                                                                                                                                                                                                                        ВP
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2; DB 1; Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Colpitts TL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g TL, Friedman PN, Gordon J;
Kratochvil JD, Roberts-Rapp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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                                                                                                                                                                                                                                                                 SEQ ID NO:
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RESULT 230
AAP23526/c
ID AAP23526/c
ID AAP235
AC AAP235
XX AAP235
XX Primer
XX Primer
XX Primer
XX WO2000
XX Uniden
XX UNiden
XX (LINS/
PF 04-JUN
XX (LINS/
PA (YING/
PA (WIDE/
XX WPI;
In S,
XX WPI;
If Sequer
XX General
PT Cyclir
PT Sequer
XX The pr
CC polymer
CC transe
CC limit:
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Best Local S
Matches 20
                                                                                                                                                                                                                                           (LINS/) LIN S.
(YING/) YING S.
(CHUO/) CHUONG C.
(WIDE/) WIDELITZ R B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a method of producing full-length cDNA libraries from single cells, designated single-cell cDNA library amplification (SCLA). The method is useful in gene chip technology, differential screening, pathological diagnosis, physiological prognosis and genetic identification. No further information about this sequence:
                                                                                                                            Generating amplified messenger RNA sequences from single cells, involves cycling steps of reverse transcription, denaturation, double-stranded DNA sequences and in vitro transcription.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Generating a complete full-length cDNA library from single cells for in gene chip technology, involves reverse transcribing intracellular mRNAs, adding polynucleotide tail and amplifying formed cDNAs.
                             The present invention relates to generating amplified messenger RNAs with polymerase reaction activity, comprising cycling steps of reverse transcription, denaturation, double-stranded cDNA synthesis and in vitro transcription. The invention is used for generating amplified mRNAs from
                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primer; mRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Primer #4.
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                 transcription. The limited mRNAs from
                                                                                                   Disclosure, Page 17; 31pp, English.
                                                                                                                                                                                      WPI; 2001-061734/07.
                                                                                                                                                                                                                                                                                                                                              04-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                         14-DEC-2000
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                                                                                                                                                                                                                Lin S,
                                                                                                                                                                                                                                                                                                                  04-JUN-1999;
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                                                                                                                                                                                                                Ying S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                            amplification;
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                                                                                                                                                                                                                Chuong
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                ion is used for generating amplified mRNAs cells
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                                                                                                                                                                                                                Widelitz
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Pred. No. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                              89
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RESULT 231
ANAIT3048/c
ID ANAIT30
XX ANAIT30
XX ANAIT30
XX Scaffo
XX Scaffo
XX Molecu
KW Molecu
KW Molecu
KW Emissi
KW polymo
XX WO2002
XX WO2002
XX I1-SEP
PN WO2002
XX I1-SEP
PR 31-JUL
XX I1-SEP
PR 31-JUL
XX IVCO
XX UVCO
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Matches 20
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                       composition of matter comprising multiple fluorophores. The fluorophores are bound to the molecular scaffold at separate predetermined positions, to permit fluorescence energy transfer between two fluorophores. The fluorophores are characterized by maximum emission wavelength of one being greater than the minimum excitation wavelength of the other. The composition is useful for determining whether a preselected nucleotide residue is present at a predetermined position within a nucleic acid. It is also useful in multicomponent analysis including multiplex biological analysis, and identifying multiple single nucleotide polymorphisms. The presence of a number of given nucleotide residues is determined simultaneously by the composition of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 26 BP; 0 A; 0 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Composition of matter useful for multi-component analyses, comprises multiple fluorophores bound to molecular scaffold at preset positions to permit fluorescence energy transfer between two fluorophores.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Molecular scaffold; fluorophore; fluorescence; energy transfer; emission wavelength; excitation wavelength; multiple; single nucleotide; polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This sequence represents a molecular scaffold which may be used composition of matter comprising multiple fluorophores. The fluorophores
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-SEP-2000; 2000US-00658077.
31-JUL-2001; 2001US-0309156P.
                                                                                                                                                                                                                           Sequence 26
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                                                        AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                           BP; 0 A; 1 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 43; 113pp;
                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tong A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  87.0%;
                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Russo JJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            English.
                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>,</u>
                                                                                                                                     Score 18.2;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 18.2; DB 1;
Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26
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                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7;
0
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                                                                                                                                                                        B
                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                   Indels
                                                                                                                                                                        26
                                                                                                                0,
                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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RESULT 232

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AAS206772/c
IN AAS206
XX AAS206
XX AAS206
XX O9-AAPR
XX Human
XX Cytoki
KW Gytoki
PP 09-MAI
XX O9-MAI
XX O1-JUI
XX O1-MAI
PP 01-MAI
PP 01-MAI
XX New z
PT Stimul
PT 01-MI
PT 01-
RESULT 233
AAD43853/c
ID AAD438
XX
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                                                                                                                                                                                                                                                                                               Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to the isolation of a novel cytokine, CC zalphall Ligand and the polynucleotide encoding it. The invention also CC gives the sequence for the zalphall receptor and the polynucleotide CC encoding it. The zalphall Ligand polypeptide stimulates proliferation of CC natural killer (NK) cells or NK cell progenitors, the activation of NK CC cells, proliferation of T-cells proliferation of B-cells stimulated with cC anti-CD40 antibodies, stimulates an antigenic response in a mammal, and CC reduces proliferation of B-cells stimulated with anti-IgM antibodies. The CC zalphall Ligand polypeptide is also useful in preparing antibodies that CC bind to zalphall Ligand epitopes. The zalphall Ligand polypucleotides can be used as probes or primers to clone regions of a zalphall Ligand gene, CC and in gene therapy. Zalphall Ligand may also be used to identify CC inhibitors of its activity, to enhance the generation of anti-tumour CC responses with or without the infusion of donor lymphocytes, and to activate or stimulate the immune system. The present sequence represents a sequencing primer used to sequence CDNA clones in the isolation of two control of the co
                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 20
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Gross JA,
                                       AAD43853 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New zalphall ligand polypeptides and polynucleotides, useful for stimulating proliferation, activation, differentiation and/or induction of inhibition of specialized cell function, or for stimulating an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cytokine; zalphall Ligand; zalphall receptor; NK cell progenitor; natural killer cell proliferation; T-cell proliferation; B-cell proliferation; anti-tumour response; immune system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 7; Col 139; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antigenic response.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-040208/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-MAR-2000; 2000US-00522217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US6307024-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human zalphall Ligand sequencing primer ZC7764b.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAS20672;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAS20672 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ZYMO ) ZYMOGENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunostimulant; cytostatic; human; sequencing primer; ss.
                                                                                                                                                                                                                                                                                                       5393 AAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                  n 0.3%;
Similarity 87.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26
                                                                                                                                                                                                                                AAAAAAAAAAAAAAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Presnell SR,
Johnston JV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Johnston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0
                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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99US-0123904P.
99US-0142013P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; 1 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry
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                                           ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP
                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                  Score 18.2; DB 1
Pred. No. 3.7e+02
                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length 26;
                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Holly RD;
                                                                                                                                                                                                                                                                                                                                                                                  0,
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RESULT 234
ABX93461/c
ID ABX934
XX ABX934
AC ABX934
XX DT 27-MAY
XX LS147-
XX LS147;
KW LS147;
KW primer
XX X
OS Synthe
XX
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                                                                                                                                                                                                                                                                                                              $
                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for obtaining a single stranded polynucleotide tag from a biological sample by cleaving one of the complementary strands of a double stranded polynucleotide with a cleavage agent capable of recognising a double stranded polynucleotide comprising complementary strands and cleaving only one of the strands of the polynucleotide in the process of generating a single stranded polynucleotide tag. The method is useful for separating, analysing tags originating or obtaining single stranded polynucleotides comprising tags originating partly, and preferably wholly from a source of DNA and/or RNA in a sample comprising biological cells. The method is particularly for analysing gene expression (expression profiling or differential gene expression, or in diagnosing clinical conditions. The present sequence is a primer used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 26 BP; 0 A; 0 C; 0 G; 26 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Obtaining single stranded polynucleotide tags from a biological sample, for analyzing gene expression or diagnosing clinical conditions, comprises employing nicking endonucleases that cleave complementary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unidentified.
                                                 LS147; cancer; lung cancer; gene therapy; cytostatic; ss; primer; EST clone; expressed sequence tag clone.
                                                                                                   LS147-specific
                                                                                                                                   27-MAY-2003
                                                                                                                                                                    ABX93461;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-JAN-2001; 2001DK-00000126.
12-FEB-2001; 2001US-0267704P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200259357-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Single stranded polynucleotide tag; cleavage agent; gene expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD43853;
                                                                                                                                                                                                  ABX93461 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-636542/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pedersen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENO-) GENOMIC EXPRESSION APS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-JAN-2002; 2002WO-DK000052.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Primer #2 used to illustrate the method of the invention
                                                                                                                                                                                                                                                                                                                   5393 AAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 294; 302pp; English.
                                                                                                                                                                                                                                                                                   AAAAAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                 (first entry)
                                                                                                 polynucleotide sequencing related universal primer #1.
                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                    26
                                                                                                                                                                                                    ΒP
                                                                                                                                                                                                                                                                                                                                                    <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                 Score 18.2; DB 1;
Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 26;
                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                    sequencing;
                                                                                                                                                                                                                                                                                                                                                    <u>,</u>
                                                                                                                                                                                                                                                                                                                                                    Gaps
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RESULT 235
ABZ24784/C
ID ABZ2477
XX
AC ABZ247
XX
AC ABZ247
XX
OT O7-APR
XX
Immuno
XW
88.
XX
Immuno
XX
Immun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   맑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S
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Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention describes a purified polypeptide or its fragment derived from the LS147 gene capable of selectively hybridising to the nucleic acid of the gene and has at least 50% identity with the polynucleotide. The LS147 polypeptide is useful for preparing a composition for treating cancer, e.g. lung cancer using gene therapy. This sequence represents a universal primer used to sequence LS147 expressed sequence tag (EST)-
                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligodeoxynucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABZ24784 standard; DNA; 26 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 26 BP; 0 A; 1 C; 0 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; Page 39; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New LS147 polypeptide, e.g., lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Billingel P,
Russell JC,
21-MAY-2001; 2001AT-00000805
                                                                                                                                                  WO200295027-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABZ24784;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JUN-1998;
                                                17-MAY-2002; 2002WO-EP005448
                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                       Immunostimulant; oligodeoxynucleic acid; ODN; vaccine; DNA-RNA hybrid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US2002188114-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RUSS/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5393 AAAAAAATACAAAAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2003-341045/32.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) BILLINGEL P.
COHENT T L.
COLPITTS T L.
COLPITTS T L.
CRIEDMAN P N.
KLASS M R.
RUSSELL J C.
STROUPE S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stroupe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cohen M,
Stroupe S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97US-0048810P
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                                                                                                                                                                                                                                                                          Location/Qualifiers
1. .26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        acid molecule ODN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                          base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful for preparing a composition
                                                                                                                                                                                             "thiophosphate
                                                                                                                                                                                                                                                      2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 18.2; DB 1;
Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TL,
                                                                                                                                                                                                     backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Friedman PN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for treating
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RESULT 236
ACA62282/c
ID ACA622
XX ACA622
XX 12-AUG
DT 12-AUG
XX 901igo
XX 90 promot
XX 12-AUG
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention is based on the discovery that ODNs containing deoxyuridine residues (U-ODNs) have an immunostimulatory effect comparable to, or in many instances greater than, ODNs containing CpG motifs, producing higher numbers of specific T cells to a given antigen. The U-ODNs do not induce the systemic production of pro-inflammatory cytokines and, in contrast to CpG ODNs, are not dependent on a specific motif or a palindromic sequence. Use of a U-ODN for the preparation of a vaccine is claimed. Combining the U-ODN with an antigen strongly increases the potential of the antigen to raise the protection/immune response of a vaccinated individual. An example of the invention demonstrated the generation of a specific immune response against a melanoma-derived peptide (see ABP58360) by injection of mice with the peptide in combination with ODN
                                                                                                                                                                                                                                                                                                                  25-JAN-2000; 2000US-00494212.
                                                                                                                                                                                                                                                                                                                                                                       07-SEP-2001; 2001US-00949305.
                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US2003022318-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligo (dT) primer #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lingnau
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-183880/18
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                                                                                                                                                                                                                                                          (BPIC-) BPICLONB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5393 AAAAAAATACAAAAAAAGAAAAAA 5415
                                                                                                                                                2003-479488/45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20;
                                                                                                                                                                                                  Ying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ζ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer; antisense therapy; mRNA expression containing primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
nilarity 87.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 32; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schellack C,
                                                                                                                                                                                                  S
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                                                                                                                                                                                                                                                             INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    is that of a thiosubstituted oligodeoxymucleic acid 24, including deoxyuridine monophosphates. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schmidt W;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 18.2; DI
Pred. No. 3.7e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     profile;
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Improved polymerase thermocycling reaction for nucleic acid amplification, by thermal cycling of promoter-linked nucleic acid template synthesis and in vitro transcriptional amplification of racid sequences.

of nucleic

Example 4; Page 14; 28pp; English

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RESULT 237
ADH44609/C
ID ADH446
XX ADH446
AC ADH446
XX ADH446
XX ADH446
XX ADH446
XX Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC (M1) for linear amplification of mucleic acid sequences, involves, contacting a number of mucleic acid sequences, involves (P2), a number of deoxynucleocide triphosphates and ribonucleocide triphosphates, are verse transcription enzyme, a DNA-dependent DNA polymerase and RNA a reverse transcription enzyme, a DNA-dependent DNA polymerase and RNA contacting P1 with the denatured promoter-containing templates, contacting P1 with (I) to generate a number of promoter-containing templates, contacting P1 with the denatured promoter-containing templates, contacting P2 with the denatured promoter-containing templates to contacting P2 with the denatured promoter-containing templates, contacting P2 with the denatured promoter-containing templates, contacting the promoter-containing double-stranded DNA templates are flanked by P1 in one end and P2 in the other end of the other orientation, transcribing the promoter-containing double-stranded DNA templates to form a number of generate amplified RNA sequences, including the primer region of the promoter-containing double-stranded DNA templates to form a number of unplates, and the promoter-containing double-stranded DNA templates. The method is useful for improved polymerase thermocycling reaction for linear amplified RNA sequences with P2 to form a number of contacting the man and the seased states. The method call seased state in a diseased state, by denarating an expression profile of a cell by M1 to generate multiple copies of the cells in both normal and diseased states. The method diseased state is solated man, amplifying a expression profile by the bove method, of cells in both normal and diseased state, comparing the man applifying a cell in a diseased state, isolated man, in a lase useful for treating a partial protein production, by M1, and determining aberrant protein production of the promoter in a partial state of the man applifying and the solated man and diseased state, determining the diseased state by the above method, amplifying the aberrant protein. M1 
                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
Human; 88; Zalphall ligand; Zalphall receptor; immune response; tumour progression; metastasis; tumour stasis; haematopoietic tumour; lymphoma; B cell tumour; systemic lupus erythematosus:
                                                                                   Human cDNA encoding Zalphall sequencing primer #3.
                                                                                                                                                                        ADH44609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 26 BP; 0 A; 0 C; 0 G; 26 T; 0 U; 0 Other;
                                                                                                                                                                                                               ADH44609 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 produce second strand cDNA in the method of the invention
                                                                                                                                                                                                                                                                                                                                                             5393 AAAAAATACAAAAAGAAAAA 5415
                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                      AAAAAAAAAAAAAAAAAAAAAAAAAAA
                                                                                                                              (first
                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                            entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              improved polymerase thermocycling reaction
                                                                                                                                                                                                                                                                                                                                                                                                                          Score 18.2; DB 1. Pred. No. 3.7e+02
                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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                                                                                                                                                                        The invention relates to stimulating an immune response in a mammal composed to an antigen or pathogen comprises administering a composition comprising mature zalphall ligand polypeptide comprising residues 32-162 of ADM44572 in a pharmaceutical vehicle. Also included are stimulating an immune response in a mammal exposed to an antigen or pathogen or comprising: (a) determining (in)directly the level of antigen or pathogen in the mammal; (b) administering a composition comprising zalphall ligand polypeptide in a pharmaceutical vehicle; (c) and (d) comparing the antigen or pathogen or pathogen in the mammal; (in)directly the level of antigen or pathogen in the mammal; (in)directly the level of antigen or pathogen in the mammal; (in)directly the level of antigen or pathogen in the mammal; (in)directly the level of antigen or pathogen or specific antibody; (b) administering a composition of stimulating an immune response in a mammal exposed to an antigen or specific antibody; (b) administering a composition comprising zalphall conspective in a pharmaceutical vehicle; (c) determining a post campaint of the antibody; (d) determining a level of antigen or pathogen. Specific antibody; and comparing the level of the antibody in (a) with (b), where an conspective in the antibody in (a) with (b), where an conspective in a mammal conspecti
                                                                                                       Query Match
Best Local :
                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stimulating an immune response in a mammal exposed to an antigen or pathogen, useful for enhancing anti-tumor activity resulting in reduced tumor progression or metastasis, comprises administering zalphall ligand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-MAR-1999; 99US-0123547P.
11-JMAR-1999; 99US-0123904P.
01-JUL-1999; 99US-0142013P.
09-MAR-2000; 2000US-00522217.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gross JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rheumatoid arthritis; myasthenia gravis; diabetes; infectious disease: immunocompromised patient; HIV infection; vaccine; primer.
                                                                                                                                                                      Sequence 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 7; SEQ ID NO 39; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novak JE,
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                                      5393 ААЛАЛАТАСАЛАЛАСАЛАЛАЛА 5415
                                                                                                         Similarity
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Johnston JV,
                                                                                                                                                                      BP; 0
                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001US-00923246.
                                                                                                                                                                      A; 1 C; 0 G; 25 T; 0
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                                                                                                       0.3%;
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Nelson AJ, Dillon SR, I
                                                                                   0; Mismatches
                                                                                                       Score 18.2; DB 1
Pred. No. 3.7e+02
                                                                                                                                                                        U; 0 Other;
                                                                                                                           DB 1; Length 26;
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                                                                                     Gaps
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RESULT 238 ADI00945/c

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RESULT 239
AD047862;
ID AD047862;
XX AD047862;
XC AD047862;
XX
DT 29-JUL-2004 (first
XX
DE Gene expression; gen
KW eukaryotic cell char
KW eukaryotic cell char
KW eukaryotic rell char
KW cancer cell prolifer
XX
PN US2004087526-A1.
XX
PP 06-MAY-2004.
XX
PF 19-MAR-2003; 2003US-
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Best Local S
Matches 20
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Gross JA,
                                                                                                     gene expression; gene expredssion innibilion, rate; pigmentation; eukaryotic cell characteristic; cell division rate; pigmentation; microbial infection; viral pathogenic infection; cancer cell proliferation; poly(dT)-26mer primer; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel isolated zalphall ligand polypeptide. The polypeptide of the invention may be useful for boosting immunity to infectious diseases and treating immunocompromised patients, such as HIV patients, as well as in improving vaccines. The current sequence is that of the PCR primer which was used in the exemplification of the invention.
                                                                                                                                                                                       Gene expression inhibition associated poly(dT)-26mer primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New zalphall ligand polypeptides, useful for boosting immunity to infectious diseases, and treating immunocompromised patients, such as human immunodeficiency virus (HIV) patients, or in improving vaccines.
    19-MAR-2003; 2003US-00393450.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 26 BP; 0 A; 1 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-MAR-2000; 2000US-00522217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 zalphall ligand; immunity; infectious disease; immunocompromised patient; HIV; vaccine; human; ss; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-NOV-2002; 2002US-00295723
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequencing primer SEQ 39 used to analyse human zalphall ligand clone DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-APR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADI00945 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                    5393 AAAAAAATACAAAAAAGAAAAAA 5415
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                                                                                                                                                                                                                                                                                                                                                                                                          20;
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                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAAAAAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Presnell SR, Johnston JV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 39;
                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                            26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                113pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sprecher CA,
Nelson AJ, I
                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 25 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No. 3.76
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                       Score 18.2;
Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dillon SR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Foster DC,
                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1;
3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hammond
                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A B
                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                               cancer;
                                                                                                                                                                                                                                                                                                                                                                                                        0
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characteristic is chosen from expression of a protein, cell division rate and pigmentation. (I) has an effect that lasts at least three days. (I) is useful to inhibit the expression of messenger RNA in a cell. The messenger RNA is transcribed from a gene chosen from viral gene, oncogene, enzyme. (I) is useful for suppressing cancers, by knocking out cancer related genes, for preventing and treating microbial infections, preferably reducing viral pathogenic infection and for reducing the proliferation of cancer cells. This sequence represents a poly(dT)-26mer primer used in the creation of DNA-RNA hybrids for controlling gene
                                                                                                                                                                                                                                                                                       The invention decribes a composition (I) for inhibiting the expression of a targeted gene in a substrate, comprising a DNA-RNA hybrid. (I) is useful for inhibiting the expression of the targeted gene in a substrate. The substrate is a prokaryote such as a viral or bacterial cell, or eukaryote or the cell of the eukaryote such as a vertebrate. The eukaryote is a mouse, rat, chimpanzee, preferably a human being. (I) is useful for altering the characteristics of an eukaryotic cell. The
                                        Sequence 26
                                                                                   expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 5; SEQ ID NO 6; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Composition useful substrate, and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-356242/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-NOV-2001; 2001US-0351183P.
18-JAN-2002; 2002US-00052486.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA-RNA hybrid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (LINS/) LIN S.
(JIHH/) JI H H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ά
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11 HH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      n useful for inhibiting the expression of a targeted gene in and for altering a characteristic of a eukaryote, comprises
                                          BP; 0
                                        A; 0 C; 0 G; 26
                                          T; 0
                                          U; 0 Other;
DB 1; Length 26;
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D D

밁 δ Query Match Best Local S Matches 20 5393 AAAAAATACAAAAAAGAAAAA 5415 26 Similarity **AAAAAAAAAAAAAAAAAAAA** Conservative 0.3%; 0; Score 18.2; DB 1 Pred. No. 3.7e+02 0; Mismatches Indels 0 Gaps 0

RESULT 240
ADP19768/c
ID ADP197
XX ADP197
XX ADP197
XX Human
XX Cytost
KW Cytost
KW PCR; F
XX Homo (
XX Ho 09-MAR-1999; 11-MAR-1999; 01-JUL-1999; 09-MAR-2000; cytostatic; zalphall ligand; pharmaceutical; cancer; immune response; melanoma; tumour; solid tumour; haematopoietic tumour; lymphoma; huma 10-SEP-2003; 2003US-00659684. US2004110932-A1 26-AUG-2004 ADP19768 ADP19768 standard; 10-JUN-2004 sapiens primer; zalpha11 ligand (first entry 99US-0123904P. 99US-0142013P. 99US-0123547P. DNA; PCR primer segid 39. 26 쁌

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RESULT 241
ADQ80457
ID ADQ804
XX ADQ804
XX ADQ804
XX PA (26)
XX RNA hy
XX Primer
XX Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC a mammal; a method of stimulating an immune response in a mammal with CC melanoma; a method of stimulating an immune response in a mammal bearing CC a tumour; an isolated polynucleotide comprising a sequence of nucleotides CC that encode amino acid residues cited above, where the polynucleotide concodes a polypeptide that binds a receptor comprising 538 amino acids, CC fully defined in the specification; a pharmaceutical composition CC comprising the polynucleotide encoding, in a pharmaceutically acceptable comprising the polynucleotide encoding, in a pharmaceutically acceptable CC vehicle; an expression vector comprising the following operably linked CC elements a control element; and a DNA segment comprising the CC polynucleotide; and an isolated polynucleotide molecule comprising at CC least 10 nucleotides of the polynucleotide sequence of 642 bp, fully CC defined in the specification. The molecules, compositions and methods are CC useful for treating cancer, e.g. melanoma, solid tumour, basematopoietic cumour, or lymphoma. This sequence represents a primer used in the cCC expression cloning of human cytokine zalphall ligand.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 20
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Gross JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention describes an isolated polypeptide comprising a sequence of amino acid residues that is at least 90 or 95% identical to residues 41 (Gln) to 148 (Ile), or 32 (Gln) to 148 (Ile), or 32 (Gln) to 148 (Ile) of a sequence of 162 amino acids (SEQ ID NO:2, human zalphall ligand), fully defined in the specification. Also described are: a pharmaceutical composition comprising the polypeptide, and a vehicle; a method of treating cancer in
                                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA hybrid; self normalisation; five prime exon rescue; RNA linker; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Da (26) biotin primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADQ80457;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADQ80457 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 26 BP; 0 A; 1 C; 0 G; 25 T; 0 U; 0 Other;
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                                                                                                                                                                 06-DEC-2002; 2002GB-00028557
                                                                                                                                                                                                                             08-DEC-2003; 2003WO-GB005341
                                                                                                                                                                                                                                                                                            24-JUN-2004
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                                                              (RUFF/)
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   Š,
                                                              GENOMICA SAU.
RUFFLES G K.
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Johnston JV,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
   Escobar IG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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   Gallego SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₽₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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Pred. No. 3
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   Cimadevilla JCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .7e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 26;
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RESULT 242
AAL47121/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to experimentally analysing boundaries within polymeric DNA or RNA molecules comprises hybridizing first and second different RNA molecules, derived from first and second samples, to provide RNA / RNA hybrids. The product of the method above is used as a probe. The method is useful in experimentally analysing boundaries within polymeric DNA or RNA molecules. The methods are useful in analysing polymeric nucleic acid sequence variations and in identifying molecules of therapeutic interest. The present sequence represents a RNA primer of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Experimentally analyzing boundaries within polymeric DNA or RN. molecules, useful in analyzing polymeric nucleic acid sequence variations, comprises hybridizing different RNA molecules to p. / RNA hybrids.
                                                                                                                                                                                                                                                                                                                                                                                                                          Pyrin domain; PYD domain; antiinflammatory; antiparkinsonian; antiarteriosclerotic; antipsoriatic; antiarteriosclerotic; antipsoriatic; antibacterial; virucide; neuroprotective; antiarthritic; antirhemmatic; antiasthmatic; nephrotropic; osteopathic; nootropic; intracellular signal transduction; inflammation; Alzheimer's disease; infection; psoriasis; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAL47121
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                                                                                                                                                                                                                                                                    30-OCT-2001; 2001WO-EP012545.
                                                                                                                                                                                                                                                                                                                                                                 Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure;
                                                                           New DNA encoding protein with pyrin domain, useful for treating diseases involving impaired signal transduction, particularly inflammation, also
                                                                                                                                                      Tschopp J, Martinon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pyrin domain containing protein coding sequence PCR primer JT1525.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-AUG-2002
                                                                                                                          WPI; 2002-427093/45.
                                                                                                                                                                                       (APOT-) APOTECH RES & DEV LTD
                                                                                                                                                                                                                      15-NOV-2000;
                                                                                                                                                                                                                                                                                                   23-MAY-2002.
                                                                                                                                                                                                                                                                                                                                  WO200240668-A2
                                                                                                                                                                                                                                                                                                                                                                                             osteoarthritis; glomerulonephritis;
                                                                                                                                                                                                                                                                                                                                                                                                            arteriosclerosis; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5393 АЛАЛАЛАТАСАЛАЛАЛАЛАЛАЛА 5415
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; DNA; 18
                                                              and antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAAAAAA 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID
                                                                                                                                                                                                                      2000DE-01056687.
2000DE-01059595.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 0 C; 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
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Pred. No. 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                               rheumatoid arthritis; sarcoidosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.7e+02
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0,

The present invention

relates the

DNA

and their

encoded

proteins,

Example; Page 49; 116pp; German.

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RESULT 243
AAL47123
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Best Local Similarity
                                                The present invention relates the DNA and their encoded proteins, where the proteins contain at least one PVD (pyrin) domain. These can be used to treat diseases associated with impaired intracellular signal transduction, particularly inflammation such as psoriasis, arteriosclerosis, bacterial or viral infections (particularly meningitis and pneumonia), multiple sclerosis, rheumatoid arthritis, asthma, sarcoidosis, glomerulonephritis and osteoarthritis, and also Alzheimer's and Parkinson's diseases. The present sequence is a PCR primer used to
                                                                                                                                                                                                                                                      New DNA encoding protein with pyrin domain, useful for treating diseases involving impaired signal transduction, particularly inflammation, also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiarteriosclerotic; antipsoriatic; antibacterial; virucide; neuroprotective; antiarthritic; antitheumatic; antiasthmatic; neuroprotective; antiarthritic; antitheumatic; antiasthmatic; nephrotropic; osteopathic; nootropic; intracellular signal transduction; inflammation; Alzheimer's disease; infection; psoriasis; asthma; arteriosclerosis; multiple sclerosis; rheumatoid arthritis; sarcoidosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAL47123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18 BP; 5 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and pneumonia), multiple sclerosis, rheumatoid arthritis, asthma, sarcoidosis, glomerulonephritis and osteoarthritis, and also Alzheimer's and Parkinson's diseases. The present sequence is a PCR primer used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the proteins contain at least one PYD (pyrin) domain. These can be used to treat diseases associated with impaired intracellular signal transduction, particularly inflammation such as psoriasis, arteriosclerosis, bacterial or viral infections (particularly meningitis
                                                                                                                                                                                                                                       proteins and
                                                                                                                                                                                                                                                                                                           WPI; 2002-427093/45.
                                                                                                                                                                                                                                                                                                                                          Techopp
                                                                                                                                                                                                                                                                                                                                                                                                               15-NOV-2000; 2000DE-01056687.
30-NOV-2000; 2000DE-01059595.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-OCT-2001; 2001WO-EP012545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     osteoarthritis; glomerulonephritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pyrin domain; PYD domain; antiinflammatory; antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pyrin domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAL47123 standard;
                                                                                                                                                                                                      Example, Page 49; 116pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                             (APOT-) APOTECH RES & DEV LTD
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                                                                     The invention describes a compound 8-80 nucleobases in length targeted to a nucleic acid molecule encoding LIM domain kinase 1. The compound specifically hybridises with the nucleic acid molecule encoding LIM domain kinase 1 and inhibits the expression of LIM domain kinase 1. It specifically hybridises with at least an 8-nucleobase portion of a preferred target region on the nucleic acid molecule encoding LIM domain kinase 1. The antisense oligonucleotide is useful for modulating the expression of LIM domain kinase 1 in cells or tissues to treat diseases associated with their expression, such as a developmental disorder or a neurological disorder. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. This sequence represents a treatment of the compound is used for diagnostics.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense oligonucleotides for modulating expression, useful for diagnosing, preventing associated with the kinase, e.g. neurological
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                                                                                                                                                                                                                                                                                                                                                                                                    Example 15;
                                                       numan LIM domain kinase 1 antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4411 GATGAGACTCTGGTGTGG 4428
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domain
                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 135; 81pp; English
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/mod_base= OTHER
/more= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
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/note= "OTHER= 2'-O-Methoxyethyl (2'-MOE)
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Pred. No.
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3.7e+02;
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                                                        The invention describes a compound 8-80 nucleobases in length targeted to a nucleic acid molecule encoding LIM domain kinase 1. The compound specifically hybridises with the nucleic acid molecule encoding LIM domain kinase 1 and inhibits the expression of LIM domain kinase 1. It specifically hybridises with at least an 8-nucleobase portion of a preferred target region on the nucleic acid molecule encoding LIM domain kinase 1. The antisense oligonucleotide is useful for modulating the expression of LIM domain kinase 1 in cells or tissues to treat diseases associated with their expression, such as a developmental disorder or a neurological disorder. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. This sequence represents a human time domain times a lartisense of its or the compound of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense oligonucleotides for modulating LIM domain kinase expression, useful for diagnosing, preventing or treating condit associated with the kinase, e.g. neurological or developmental of
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                                     LIM domain kinase 1 antisense oligonucleotide.
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are 5-methylcytidines"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2'-O-Methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; L
3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or treating conditions or developmental disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nucleotides
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleotides'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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RESULT 246
ADJ13738/c
ID ADJ137
XX ADJ137
XX ADJ137
XX Probe;
XX P
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                                                                                                          Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                 This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                          Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Analysis of chemical modification of DNA involves obtaining sample of
to be analyzed, treating DNA with chemical reagents that result in
different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 7 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Garner HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GARN/)
(MINN/)
(LUBB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ13738;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID NO 865; 210pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                probe; ss; chemical modification; methylation; array; CpG island.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human DNA probe used to immobilise CpG methylated DNA SeqID 865.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (BALO/)
                                                                                                                                          Local Similarity
                                                     2436 GGATGAGAAGGGGAGAGG 2453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2643 GCAGCTGCTGCAGCC 2660
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19
                                                                                                             18;
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BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GARNER H R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGCTGCTGCAGCC 18
                                                                                                             Conservative
                                                                                                                                                                                                                          BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                       100.0%;
                                                                                                                                                                                                                          11 C; 1 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
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                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 18;
; Pred. No.
                                                                                                                                       Score 18;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ፭
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Balog
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                                                                                                                                                                     DB 1;
                                                                                                                                          3.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3.7e+02;
                                                                                                                                                                     Length 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 20
                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                             0
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                                                                                                             Gaps
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                                                                                                                0
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RESULT 248
AAT86582/c
ID AAT865
XX
AC AAT865
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AAT85350/c
                                                                                                           문
                                                                                                                                 ঠ
                                                                                                                                                                                                                                encoding silk protein. The process involves: (a) selecting target DNA, of from a silk-producing spider, that contains many repetitive and non-repetitive regions; (b) selecting a single-stranded DNA primer of at least 10 nucleotides with a sequence that is complementary to a region of the target; (c) repetitively combining the primer with melted target DNA, incubating the mixture with nucleotides and a DNA polymerase with complementary to the target and is at least 2 kb long. The present sequence represents a specifically claimed primer for use in this process. The DNA fragment can be used to make fibres, films, woven articles, e.g. for use in bological weapons, DNA, chemical, flavours and fragrances). The high commercial scale (at over 2 g/l cell mass). It has better tensile strength and elasticity than silkeorm silk interest can be produced on a commercial scale (at over 2 g/l cell mass).
                                                                                                                                                                  Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New opt. multimerised DNA sequences encoding spider silk protein - contg. both repetitive and non-repetitive sequences, useful for making high strength films, fibres, woven articles etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        High strength film; fibre; woven article; parachutes; sails; absorber; body armour; heavy metal; biological weapon; chemical; flavour; fragrance; Nephila clavipes; ss.
   AAT86582;
                                                                                                                                                                                                                                Sequence 23 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 7; Page 54; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-DEC-1997
                                 AAT86582 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A process has been developed for the production of a DNA fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Basel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-MAR-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9708315-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Spider silk protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT85350;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (BASE/) BASEL R M.
(ELIO/) ELION G R.
                                                                                                                                                                                                                                                            non-repetitive regions ensures isolation of stable clones
                                                                                                                                 2640 CCTGCAGCTGCTGCTGCAGC 2659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RM,
                                                                                                           23
                                                                                                           CCWGCAGCTGCTGCTGCTGC 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Elion GR
                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    target DNA primer
                                                                                                                                                                                90.0%;
                                                                                                                                                                                                                             6 C; 10 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                    1;
                                                                                                                                                                                Score 18; DB 1;
Pred. No. 3.8e+02;
                                                                                                                                                                    Mismatches
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(왕
                                                                                                                                                                                               Length 23;
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                                                                                                                                                                                                                 RESULT 249
                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Solid phase synthesis of phosphoro:thioate oligo:nucleotide(s) using new dimeric synthon(s) - useful as anti:sense molecules for inhibiting gene expression.
                                           DNA fidelity; DNA manipulation; cancer; fragile X syndrome; thera myotonic dystrophy; Huntington's disease; spinocerebellar ataxia;
                                                          Endonuclease; MED1; human; methyl-CpG binding endonuclease-1; PCR primer;
DNA fidelity; DNA manipulation; cancer; fragile X syndrome; therapy;
                                                                                                  PCR primer for human MED1 endonuclease coding sequence.
                                                                                                                                19-MAY-1999
                                                                                                                                                          AAX22013;
                                                                                                                                                                                      AAX22013 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 0 A; 10 C; 0 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; Page 20; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-415290/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reese CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-FEB-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Phosphorothioate oligonucleotide; dimeric phosphoramidite synthon; thioester; DNA synthesis; antisense oligonucleotide; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAR-1998
                             Kennedy's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CRUA-) CRUACHEM LTD
                                                                                                                                                                                                                                                                                       1180 AGAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                    . Similarity
19; Conserv
                                                                                                                                                                                                                                                            AGAGAGAGAGAGAGAGA 1
                             disease, triplet
                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ₹,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /note= "Phosphorothioate linkages between alternate
nucleotides (1 and 2, 3 and 4 etc.)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . 21
                                                                                                                                                                                                                                                                                                                                   90.5%;
                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                      21
                            repeat expansion disorder;
                                                                                                                                                                                        묭
                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                 Score 17.8; DB 1; Length Pred. No. 4e+02;
                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #1.
                                                                                                                                                                                                                                                                                                                     <u>ب</u>
                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                  21;
                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                     Gaps
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RRSULT 250
ADH7066
XX
ADH7066
XX
AC
ADH706
XX
AC
ADH706
XX
DT
25-MAR
XX
Human
XX
Hum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence is a PCR primer for DNA encoding the human MED1
CC endonuclease of the invention. MED1 (methyl-CpG binding endonuclease-1)
CC is used to screen for specific modulators (potential therapeutic agents
CC particularly mimetics of MED1) and to study interactions involved in
CC maintaining DNA fidelity, for DNA manipulation and to raise antibodies.
CC Susceptibility or predisposition to cancer (particularly colorectal or
CC endometrial, especially hereditary non-polyposis colorectal cancer), or
CC its prognosis, where caused by alterations in the MED1-encoding gene, are
CC identified by sequence comparison, amplification, detecting altered
CC (particularly to probes specific for a mutant allele). These same methods
CC (particularly to probes specific for a mutant allele). These same methods
CC (an also be used to diagnose fragile X syndrome and other diseases (e.g.,
CC can also be used to diagnose fragile X syndrome and other diseases (e.g.,
CC (myotonic dystrophy, Huntington's disease, spinocerebellar ataxia and
CC (xennedy's disease) associated with triplet repeat expansion. The DNA, or
CC its fragments, are used as probes and primers in the above diagnostic
CC methods, also to isolate homologous sequences, as sources of antisense
CC sequences and for gene transfer, particularly to restore drug sensitivity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                          human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; hypersensitivity disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; allergy; type II hypersensitivity; Goodpasture's syndrome; type II hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADH70613;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADH70613 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 6 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 45; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New nucleic acid encoding human endonuclease MED1 involved in DNA mismatch repair - used for diagnosing susceptibility to cancer and fragile X syndrome, and therapeutically.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999-142462/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO9904626-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                      Human Vbeta gene repeat sequence #403.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-FEB-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (FOXC-) FOX CHASE CANCER CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      drug-resistant cancer cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1415 GAAGCTGGCCTGATTATGTGG 1435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAGCTGACCTGATAATGTGG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-0053936P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-US015828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 17.8;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Migmatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
   brain cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 251
AAQ34355
ID AAQ343
XX AAQ343
XZ AAQ343
XZ AAQ343
XX DT 25-MAI
DT 02-FEE
XX DE UPStre
XX PCR; 6
KW PCR; 6
KW geneti
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                                                                                                                                                                                                                                                                                                                                Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a kit for diagnosing and treating T-cell CC associated diseases which comprises a panel of nucleic acid primers composited by priming and allowing amplification of each Vbeta gene, CC vbetaRNA or cDNA. The kit is useful for diagnosing organ transplant C rejection and diagnosing and treating T-cell associated diseases. CC including autoimmune diseases, degenerative nervous system diseases, cc graft versus host diseases, hypersensitivity diseases, infectious diseases. CC and neoplastic diseases. Autoimmune diseases include Addison's diseases, caterophic gastritis. Degenerative nervous system diseases include Type C atrophic gastritis. Degenerative nervous system diseases include Type C sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type C lypersensitivities such as those present in CC goodpasture's syndrome and Type IV hypersensitivities such as those caused by C manifested in leprosy. Infectious diseases include viral infections C manifested in leprosy. Infectious diseases include viral infections caused by viruses such as those caused by the yeast genus Candida, parasitic infections such as those caused by C schistosomes, filaria and bacterial infections such as those caused by C schistosomes, filaria and bacterial infections such as those caused by C by cast genus Candida, parasitic infections such as those caused by C by cast genus candida, parasitic infections such as those caused by C by cast genus candida, parasitic infections such as those caused by C by cast the present sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                           Matches 19;
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    breast cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprises mucleic acid primers specifically priming and allowing amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hood LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HOOD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 807; 164pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vbeta gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-059052/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2002150891-A1
                                                                                                                                                                                                                                                                                                                                      1180 AGAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HOOD L E
                                                                                                                                                                                                                                                                                                   AGAGAGAGAGAGAGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rowen L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 0 A; 10 C; 0 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         M
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95US-00531241.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9908-00263959.
                                                                                                                                                                                                                                                                                                                                                                                          90.5%;
                                                                                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                                                                                                          Score 17.8;
Pred. No. 4e
                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                            4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                           Gaps
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genetic mapping; traits; amplification; ss.

Upstream PCR primer TGLA351UP1

PCR; selection; microsatellite; OPTIPRIM; breeding; cattle; parentage;

25-MAR-2003 02-FEB-1993 AAQ34355;

(revised) (first en

entry)

AAQ34355 standard;

DNA;

22

0;

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RESULT 252
AAT76462/c
ID AAT764
XX
AC AAT764
XX
Chymas
DE Chymas
XX
Chroni
XX
Chroni
XX
W09640
XX
PD 19-DEC
XX
XX
PF 06-JUN
XX
XX
PA (UYEC-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       microsatellites is summarised in the specification and indexed herein (see below). For each such microsatellite sequence sufficient information was obtd. to generate the required PCR primers for in vitro amplification of the corresp, microsatellite (using the program OPTPRM). The microsatellites may be used to identify individuals, for parentage testing, and in the genetic mapping of economic trait loci, or genes involved the determinism of economically important traits esp. in cattle, to allow selective breeding. See also AAQ33501-34440. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                 16-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22 BP; 5 A; 7 C; 6 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The sequence shows an upstream PCR primer for in vitro amplification of bovine microsatellite sequences obtd. by streaming library of bovine MooI DNA fragments of between 250 and 500 by with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50 clones cross hybridised. Assuming independent distribution of microsatellites and MooI sites, the frequency of (T6)n >9 microsatellites in the bovine genome is estimated at >100,000. The sequence information for ca. 230 such bovine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Georges M,
                                                                                                                                                       Synthetic.
                                                                                                                                                                                   Asthma; airway epithelium; adenosine free; cystic fibrosis; chronic obstructive pulmonary disease; bronchitis; ss.
                                                                                                                                                                                                                                 Chymase antisense oligonucleotide
                                                                                                                                                                                                                                                                                              AAT76462;
                                                                                                                                                                                                                                                                                                                            AAT76462 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Polymorphic bovine DNA markers - used in genetic identification, gene mapping, and selective breeding.
                               07-JUN-1995;
                                                              06-JUN-1996;
                                                                                            19-DEC-1996.
                                                                                                                       WO9640162-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1992-284684/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9213102-A1
   (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GENM-) GENMARK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bos taurus.
                                                                                                                                                                                                                                                                                                                                                                                                                         5069 CTCATCTGGTGGCCACAGCAG 5089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8; Page 471; 517pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                         N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                       CACATCTGGTGGCCACATCAG 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Маввеу ЛМ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
ilarity 90.5%;
Conservative
                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               91US-00642342
                               95US-00474497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92WO-US000340
                                                              96WO-US009306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 17.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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RESULT 253
AAX54254/C
ID AAX54224/C
XX AAX542
XX AATise
KW impair
XX ARTISE
KW impair
KW pulmon
KW colon
KW chroni
KW colon
KW prosta
XX Synthe
XX 25-MAI
XX 25-MAI
XX 25-MAI
XX 25-MAI
XX 25-MAI
XX 17-SEE
PR 17-SEE
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            which involves the topical administration of an essentially adenosine free antisense oligonuclectide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonuclectide specific for chymase. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis; acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema;
New antisense oligonucleotides used vasoconstriction.
                                                         WPI; 1999-229400/19.
                                                                                                                                                                         17-SEP-1997;
09-JUN-1998;
                                                                                                                                                                                                                                                                            25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                              prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                 colon cancer; breast cancer; lung hepatocellular carcinoma; kidney
                                                                                                                                                                                                                                                                                                                                                                                                                                   chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chymase antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX54254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX54254 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 22 BP; 0 A; 10 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 5; Page 41; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treatment of airway diseases such as asthma - by topically applying adenosine-free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1997-051871/05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7
                                                                                                                                                                                                                                     17-SEP-1998;
                                                                                                                                                                                                                                                                                                                  WO9913886-A1
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                                                                                                                                    (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            148 CAGGACCCAGGAGAGGGAAGA 168
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             l Similarity
19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bronchoconstriction in patients with hyper-reactive airways
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGGAGACAGGAGAGGGAAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Metzger WJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                       EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                           97US-0059160P.
98US-00093972.
                                                                                                                                                                                                                                     98WO-US019419
                                                                                                                                                                                                                                                                                                                                                                                                88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 17.8; DB 1;
Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                   cancer; melanoma; hepatic metastasis;
                    ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1,
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                    ef,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                    pulmonary
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0

treatment

e.g.

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RESULT 254
AAA33698/c
ID AAA336
XX AAA336
XX AAA336
XX Low ad
XX Low ad
XX Human;
KW phosph
KW allerg
KW allerg
KW antiall
KW cancex
XX Dulmon
KW pulmon
KW pulmon
KW cancex
XX Homo s
XX WO2000
XX WO2000
XX WO3-AUC
YA 03-AUC
XX WFE
XX WYEC
PR 03-AUC
XX WFE
XX New all
PT Vasocc
PT Vasocc
PT Vasocc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CC directed against at least 2 mRNAs selected from target genes, coding and connon-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-CC end and the juxta-section between coding and non-coding regions and all genetic segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived CC from sequences AAX55272-74. These multiple target oligonucleotides (genetifically AAX55180-271) can be used for the antisense treatment of CC diseases and conditions. Typical diseases and conditions are those CC associated with impaired respiration and inflammation, including lung CC disteases, pulmonary vasoconstriction, inflammation, allergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory CC distress syndrome, pain, cystic fibrosis, pulmonary hypertension, CC distease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. CC colon cancer, breast cancer, lung cancer, melanoma, hepatic metastases, as the lungs including cancers which may metastasize or have metastasized CC to the lungs including and cancers which may metastasize or have metastasized CC to the lungs including heres.
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Best Local S
Matches 19
New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                          Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; inflammation; allergy; dieease; bronchoconstriction; inhibitor; antinflammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary distress syndrome; pain; cystic fibrosis; emphysema; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
                                                                                     WPI; 2000-205971/18.
                                                                                                                                                                                                                   03-AUG-1998;
                                                                                                                                                                                                                                                           03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                               WO200009525-A2
                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Low adenosine antisense oligonucleotide SEQ ID NO:1387.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAA33698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA33698 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 22 BP; 0 A; 10 C; 2 G; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to the lungs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 60; 120pp; English
                                                                                                                                                                         (UYEC-) UNIV EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The specification describes antisense oligonucleotides (AAX52869-X55271)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    148 CAGGACCCAGGAGAGGGAAGA 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGGAGACAGGAGAGGAAGA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       including breast and prostate cancer
                                                                                                                                                                                                                   98US-0095212P
                                                                                                                                                                                                                                                           99WO-US017712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
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Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8; L-
4.1e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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RESULT 255
AAF19820/c
ID AAF198
XX AAF198
XX 14-MAR
XX Human
XX Human;
XX Low ad
KW Low ad
KW immuno
KW respir
KW surfac
KW respir
KW respir
KW pulmon
KW chroni
KW chroni
KW chroni
KW pulmon
KW buman;
XX 106-OC1
XX 24-MAH
XX 06-APF
XX 06-APF
AAF198
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a new composition comprising an antisense coligonucleotide (ON) with low adenosine (up to 15%), which targets conucleic acids involved in bronchoconstriction, allergies, and/or contribution. The ON can have antiinflammatory, antiallergic, inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are constructed airways, including lung disease and diseases whose secondary conspirated airways, including lung disease and diseases whose secondary conjugated airways, including lung disease and diseases whose secondary conjugated airways, respiratory distress syndrome, pain, cystic conjugated respiration, respiratory distress syndrome, pain, cystic conjugated airways and cancers which may metastasise to the lungs, including cracks and prostate cancer. The reduction of the adenosine content of the ONS reduces side effects. The A-containing ONS break down with the crelations and inflammation. AAA32313 to AAA35312 represent the nucleotion, which correspond to SEQ ID NO:1 to 2815, and then the last 185 sequences are also called SEQ ID NO:1 to 185, but the sequences differ crom the previously named sequences. SEQ ID NO:1 to 1880 (AAA32333 to AAA32331 to AAA33233 to AAA33232) are specifically claimed ONS from the present invention. N.B. Sequences given in the disclosure of the present invention do not match conjugated to the present invention of the sequence of the present invention of the sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                 human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antlinflammatory; summunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; pulmonary hypertension; emphysema; pulmonary transplantation rejection;
                                               06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human chymase polynucleotide fragment #1387.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF19820;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF19820 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 18; Page 438; 1343pp; English.
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                                                                                           24-MAR-2000; 2000WO-US008020.
                                                                                                                                          26-OCT-2000.
                                                                                                                                                                                     WO200062736-A2
                                                                                                                                                                                                                                                                                                   pulmonary hypertension;
chronic obstructive pulm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-MAR-2001
  (UYEC-) UNIV EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Low adenosine
                                                                                                                                                                                                                               sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   148 CAGGACCCAGGAGAGGGAAGA 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21 CAGGAGACAGGAGAGGGAAGA 1
                                                                                                                                                                                                                                                                           88.
                                                                                                                                                                                                                                                                                            ry nypertension; emphysema; pulmonary transplantation rejection; obstructive pulmonary disease; pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A; 10 C; 2 G; 10 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense oligonucleotide; phosphorothioate; allergy;
                                                 99US-0127958P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 17.8; DB 1; Length Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CC expression and or activity of target polypeptides associated with activating peptide factors and malignancies, such as stimulating and cartivating peptide factors and transmitters, transcription factors, communoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, communoglobulins and antibodies, antibody receptors, cytokines and chemokine receptors, adenosine receptors, brinding proteins, adenosine receptors, brinding receptors, categories, and peripheral nervous and non-nervous system creeptors, categories, and peripheral nervous and non-nervous system creeptors, defensins, growth factors, vasoactive peptides and creceptors, binding proteins and malignancy associated proteins. The cantisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or lung inflammation, allergy(ies) and/or and/or bronchoconstriction which are associated with a disease or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary cancer. AAP18434 to AAP21543 represent human polynucleotide conformation and antisense oligonucleotides used in the exemplification of the present human polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                         Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotides and compositions (I) comprising them. In the antisense oligonucleotides the A is replaced by a 'Universal' or alternative base oligonucleotides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                          12-JUN-2001
                                                                                                                                                                                                                                                                                                                      AAF99703
                                                                                                                                                                                                                                                                                                                                                              AAF99703 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 22 BP; 0 A; 10 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 14; Page 250; 1592pp; English.
                                            WO200122972-A2
                                                                                                                                                                                                                                Immunostimulatory nucleic acid #819.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes low adenosine (A) content antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (NYCE/) NYCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                148 CAGGACCCAGGAGAGGGAAGA 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGGAGACAGGAGAGGGAAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention
                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 17.8; DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 4.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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ARSSULT 257
ARS78424/c
ID ARS784
XX ARS784
XX ARS784
XX ARGIOG
XX COURDA
XW CUDULT
XW GIADET
XW GIAGUE
XW Sclero
XX Synthe
XX Synthe
XX Synthe
XX Synthe
XX Synthe
XX IL-JUL
XX IL-DEC
XX IL-DEC
XX IL-DEC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. harpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence may have a phosphorothioate backbone
                                                                                                                                                                                      diabetic retinopathy, retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber, metoden; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
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27-SEP-1999; 99US-0156135P
23-AUG-2000; 2000US-0227436P
                                                                                                                                                                                                                                                                                                       Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                Angiogenesis inhibitory oligonucleotide #908.
                                                                                                                                                                                                                                                                                                                                                                                                      13-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                            ABS78424;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABS78424 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 22 BP; 0 A; 11 C; 0 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 101; Page 56; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vaccinating against tumors, infectious diseases, allergies and asthma using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-273485/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Krieg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-SEP-2000;
                                                                                                                   WO200253141-A2
                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a method for stimulating an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (IOWA ) UNIV IOWA RES FOUND (COLE-) COLEY PHARM GMBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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Pred. No. 4.1e+02
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14-DEC-2000; 2000US-0255534P 14-DEC-2001; 2001WO-US048458

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RESULT 258
ACH03242/c
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma a hypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, it more metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,
Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                          Immunostimulatory; antiinflammatory; dermatological; antipsoriatio; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                         29-MAR-2002; 2002US-00112653
                                                                                                                                                                                                                                                          13-MAR-2003
                                                                                                                                                                                                                                                                                         US2003050268-A1
                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACH03242 standard; DNA; 22
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                                                                     WPI; 2003-521815/49
                                                                                                      Krieg
                                                                                                                                                                                      29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                                                                                                                                                                                                            Immunostimulatory nucleic acid #877.
                                                                                                                                       BERG/) BERG D J.
                                                                                                                                                       (KRIE/) KRIEG A M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (COLE-) COLEY PHARM GROUP INC.
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                                                                                                    Berg DJ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
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Pred.
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RESULT 259
ADB37205/c
ID ADB372
XX ADB372
XX ADB372
XX ADB372
XX ds; al
KW ds; al
KW hypo-r
XX Synthe
XX US2003
XX US2003
XX O2-FEE
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XX Treat:
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Best Local S
Matches 19
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Best Local S
Matches 19
                                                                                                                                                         The invention relates to a method of treating or preventing allergy or asthma which comprises administrating to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.
                                                                                                            Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                              Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-657977/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2003087848-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADB37205;
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                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 17; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (BRAT/)
(PETE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-FEB-2001; 2001US-00776479.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BRATZLER R
PETERSEN D
FOURON Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19;
                               Similarity
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                                                                                                            BP; 0 A; 11 C; 0 G; 11 T; 0 U; 0 Other;
  Conservative
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                         0.3%;
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                            Score 17.8; DB 1
Pred. No. 4.1e+02
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Pred. No. 4.1e+02;
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     Mismatches
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        Indels
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1180 AGAGAAAGAGAGAGAGAAA 1200

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RESULT 260
ADC13691/c
ID ADC136
XX ADC137
XX ADC14
XX ADC14
XX ADC16
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12-UUL-2001; 2001US-0305262F

13-UUL-2001; 2001US-0305262F

17-UUL-2001; 2001US-0305085F

24-UUL-2001; 2001US-0307536F

27-UUL-2001; 2001US-030877F

01-AUG-2001; 2001US-0308877F

01-AUG-2001; 2001US-0308877F

10-AUG-2001; 2001US-0311753F

19-SEF-2002; 2002US-0351765F

02-WAR-2002; 2002US-0361765F

02-UUL-2002; 2002US-00188248
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  The invention relates to a novel isolated NOVX polypeptide comprising: a sequence of 57-1149 amino acids as defined in the specification, or its mature form; a sequence that is at least 95% identical to the 57-1149 amino acid polypeptide; or a sequence comprising one or more conservative substitutions in the 57-1149 amino acid polypeptide. The NOVX proteins of
                                                                                                                                                                                                                                   preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                         Guo X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JUL-2002; 2002WO-US021359
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bola Domain Containing Protein; Neurotrophin Receptor;
RAL Guanine Nucleotide Dissociation Stimulator; Armadillo/Beta-Catenin
Metalloprotease; T10 Ser/Thr-rich; Ring finger-like; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human NOVX probe,
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                                                                                                                                                                                                                                                              New NOVX polypeptide, useful for preparing a composition for treating
                                                                                                                                                                                                                                                                                                                                                                                                              Malyankar UM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patturajan M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CURA-)
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                                                                                                                                                                          37; Page 303; 393pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Casman
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2001US-0304502P.
2001US-0305011P.
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                                                                                                                                                                                                                                                                                                                                                                                                     Gerlach VL, Ander
SJ, Hjalt T, Mil:
Zhong M, Padigaru
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                        Anderson
[, Miller
adigaru M,
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                                                                                                                                                                                                                                                                                                                                                                                                           CH,
                                                                                                                                                                                                                                                                                                                                                                                                        Taupier RJ, Zerhuse
Kekuda R, Shimkets
L, Shenoy SG, Gorma
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Zerhusen BD, himkets RA;

9

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

Disclosure; SEQ ID NO 10756; 872pp; English

ubiquinone.

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RESULT 261
ABZ95514/c
ID ABZ955
XX ABZ955
XX ABZ955
XX IT-OCT
XX Human;
KW Human;
KW antias
KW antias
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XX HOMO E
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
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mes 19; Conserv
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Pred. No. 4.1e+02
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Claim

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RESULT 262
ABD19659/c
ID ABD196
XX ABD196
XX ABD196
XX ABD196
XX Y
ID ABD196
XX Y
ID ABD196
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XX Human;
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Matches
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                                                                                                                                                                                                                                                                                                                  Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory disease; allergic rhinitis; pulmonary hypotrension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
Pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.
                                                                                                                                                                                                                                  WPI; 2003-093058/08
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                                                                                                                                                                                                                                                                                                                  Li Y,
Tang
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U, Shahabuddin
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Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                       Katz E,
S;
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                                                                                                                                                                                                                                                                                                                                                                 Pabalan J,
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RESULT 263
ADK61705/c
ID ADK617
XX ADK617
XX ADK617
XX O6-MAX
XX P1Ce V
XX P2003
XX JP2003
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XX JP2003
XX JP2003
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XX PF 02-MAY
XX PR (HOKU-PA (HO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC surfactant depletion or hyposecretion, when administered to a manmal. The capture of dysfunction of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA.

CC The invention also describes a kit, that comprises: (a) a delivery constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, compassition for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, composition comprises oligo and is administered to reduce the production composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung conflammation, allergies and/or surfactant hypoproduction are associated conflammation, allergies, asthma, impeded respiration, respiratory conflammation, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonacteotides into products that free adenosine into the system ce.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                            JP2003319782-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Base containing SSR sequence #9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22
                                                                 WPI; 2004-003560/01
                                                                                                                                                                                                                                                                                                                                                     11-NOV-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADK61705;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADK61705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies reducing adenosine sensitivity, levels of adenosine (A) or (A)
                                                                                                                                                                                                                                                                                       02-MAY-2002; 2002JP-00130645.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rice variety; amplification genetic marker; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes a novel composition (a) a first active agent,
                                                                                                                              (HOKU-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   148
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19;
                                                                                                                              HOKUREN NOGYO KYODO HOKKAIDO GREEN BIO I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA; 22 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGGACCCAGGAGAGGGAAGA 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGGAGACAGGAGAGGGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 10 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                             2002JP-00130645.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                               KUMIAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 17.8; DB
Pred. No. 4.1e+0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                     겆
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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Identifying rice variety using

base sequence

containing SSR sequence

amplifying genetic marker.

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ARESULT 264
ADX617
XX
ADX617
XX
AC ADX617
XX
DT 06-MAY
XX
XX
XX
DT 06-MAY
XX
XX
DY 11-NOV
XX
DY 11-NOV
XX
AC 02-MAY
XX
AC ADX617
AC ADX617
XX
XX
AC ADX617
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                       Query Match
Best Local &
                                                                                                                  Matches
                                                                                                                                                                                                                                                                                   The present invention relates to identifying a rice variety as amplification genetic marker and identifying whether test rice variety is any one of the 32 rice varieties e.g., Kasalath, breath which came or Hayamasari, Italica Livorno, Dunghan Shali, Arroz Da Terra, Fany, USSR22, Nihombare. The method is useful for identifying rice variety and identifies excellent rice variety. The present sequence represents a base containing SSR sequence of the invention.
                                                                                                                                                                                                                               Sequence 22 BP; 11 A; 0 C; 11 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 65; SEQ ID NO 17; 30pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JP2003319782-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oryza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rice variety;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Base containing SSR sequence #17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADK61713;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADK61713 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to identifying a rice variety as amplification genetic marker and identifying whether test rice variety is any one of the 32 rice varieties e.g., Kasalath, breath which came or Hayamassari, Italica Livorno, Dunghan Shali, Arroz Da Terra, Fany, USSR22, Nihombare. The method is useful for identifying rice variety and identifies excellent rice variety. The present sequence represents a base containing SSR sequence of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 34; SEQ ID NO 9; 30pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-003560/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying rice variety using base sequence containing SSR sequence and amplifying genetic marker.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HOKU-)
                              1180 AGAGAAAGAGAGAGAGAAA 1200
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                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HOKKAIDO GREEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HOKUREN NOGYO KYODO KUMIAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAGAGAGAGAGAGAGA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                amplification genetic marker; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
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                                                                                                                                       0.3%;
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                                                                                                            0;
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                                                                                                                                                                      Score 17.8;
                                                                                                                                              Pred.
                                                                                                               Mismatches
                                                                                                                                              ö.
                                                                                                                                              4.1e+02
                                                                                                                                                                      DB 1; Length 22;
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                                                                                                               Indels
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                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                            0
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RESULT: 265
RASJUST: 265
RAQ33511
RAQ3351
RX
RAC AAQ335
RX
ROT 02-FEB
RX
PCR; B
RW PCR; B
RW PCR; B
RW PO213
RN W09213
RN W092
RESULT 266
AAX00525/c
ID AAX005
XX
XX
AC AAX005
XX
DT 30-MAR
XX
DT 30-MAR
XX
DB Antise
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequence is that of a bovine microsatellite sequence obtd. by careening a genomic library of bovine MboI DNA fragments of between 250 and 500 bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50 clones cross-hybridised. Assuming independent distribution of microsatellites and MboI sites, the frequency of (T6)n >9 microsatellites in the bovine genome is estimated at >100, 000. The sequence information for ca. 230 such bovine microsatellites is summarised in the specification and indexed herein (see below). The sequences upstream and downstream of the microsatellite sequence were used to generate the required PCR primers for in vitro amplification of the corresp.

C microsatellite (using the program OPTIPRIM). The microsatellites may be used to identify individuals, for parentsee testing, and in the genetic mapping of economic trait loci, or genes involved the determinism of economically important traits esp. in cattle, to allow selective field of the program of the determinism of the microsatellites also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           breeding. field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ33511 standard; DNA; 23
                                                                                                                             AAX00525
                                                                                                                                                                                          AAX00525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Table 7; Page 132; 517pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mapping,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Polymorphic bovine DNA markers - used in genetic identification, gene mapping, and selective breeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1992-284684/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Georges M, Massey JM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-AUG-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage; genetic mapping; traits; amplification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence of microsatellite from clone AGLA209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-MAR-2003
02-FEB-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9213102-A1
                                                                                                                                                                                                                                                                                                                                                                                                       1180 AGAGAAAGAGAGAGAGAAA 1200
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                          standard,
                                                                                                                                                                                                                                                                                                                                              AGAGAGAGAGAGAGAGA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 12 A; 0 C; 11 G; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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(first en
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                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%; Score 17.8; DB 1; Length 23; 90.5%; Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                          24
                                                                                                                                                                                          BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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Antisense oligonucleotide for poly-purine target sequence.

30-MAR-1999

(first entry)

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RESULT 267
AAXOO527
ID AAXOO5
XX AAXOO5
XX AOON
AC AAXOO5
XX 30-MAR
DT 30-MAR
XX Antise
XX Target
KW Intera
XX intera
XX Synthe
XX Synthe
XX Synthe
XX OS SYNTHE

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This oligonucleotide represents an antisense oligonucleotides (ASO) targeted to a poly-purine mRNA sequence generated by a method of selectively ranking nucleic acid molecules for inhibitory efficiency. The method comprises: (a) determining the fraction of each of a set of 13 nearest-neighbour nucleic acid base pair types in a target sequence zone RNA:ASO-DNA hybrid nucleic acid sequence; (b) substituting nearest-neighbour nucleic acid base pair fractions into formulas to determine the fractions of each of a series of 13 nearest-neighbour nucleic acid base pair types to provide determined fractions; and (c) multiplying the fractions of the 13 nearest-neighbour nucleic acid base pair types by a stability ranking to the nucleic acid antisense sequence; where the results are ordered to produce a ranking. The process is used to rank nucleic acid sequences based on the stability of nucleic acid oligomer binding interactions to select sequence zones for antisense targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Selectively ranking nucleic acid molecules, for inhibitory efficiency comprises determining the fraction a set of nearest-neighbour nucleic acid base pair types in a target sequence zone, substituting nearest-neighbour nucleic acid base pair fractions to determine the fractions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX00527 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 0 A; 12 C; 0 G; 12 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                      US5856103-A.
                                                                                                                                                                                                                                                               Target; antisense; selective rank; inhibition; ranking; stability;
                                                                                                                                                                                                                                                                                                                               Antisense oligonucleotide for poly-pyrimidine target sequence
                                                                                                                                                                                                                                                                                                                                                                                                   30-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Col 13-14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-105098/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US5856103-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Target; antisense; selective rank; inhibition; ranking; stability;
interaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TEXA ) UNIV TEXAS
                                                                                                                                                                                                                                       interaction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1180 AGAGAAAGAGAGAGAAA 1200
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                   (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94US-00320507
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         72pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 17.8;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 24;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0,
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targeted to a poly-pyrimidine mRNA sequence generated by a method of selectively ranking nucleic acid molecules for inhibitory efficiency. The method comprises: (a) determining the fraction of each of a set of 13 nearest-neighbour nucleic acid base pair types in a target sequence zone RNA:ASO-DNA hybrid nucleic acid sequence; (b) substituting nearest-neighbour nucleic acid base pair fractions into formulas to determine the fractions of each of a series of 13 nearest-neighbour nucleic acid base pair types to provide determined fractions; and (c) multiplying the fractions of the 13 nearest-neighbour nucleic acid base pair types by a stability ranking to the nucleic acid antisense sequence; where the results are ordered to produce a ranking. The process is used to rank nucleic acid sequences based on the stability of nucleic acid oligomer binding interactions to select sequence zones for antisense targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Selectively ranking nucleic acid molecules, for inhibitory efficiency - comprises determining the fraction a set of nearest-neighbour nucleic acid base pair types in a target sequence zone, substituting nearest-neighbour nucleic acid base pair fractions to determine the fractions and
Sequence 24 BP; 12
                                                                                                                                                                                                                                                                                                              This oligonucleotide represents an antisense oligonucleotides targeted to a poly-pyrimidine mRNA sequence generated by a met selectively ranking nucleic acid molecules for inhibitory effi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Clark CL,
                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Col 13-14; 72pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gray DM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94US-00320507.
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     A; 0 C; 12 G; 0 T; 0 U; 0 Other;
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밁 8 Query Match Best Local S Matches 19 Local Similarity 1180 AGAGAAAGAGAGAGAAA 1200 19; AGAGAGAGAGAGAGAGAGA Conservative 90.5%; 0; Score 17.8; Pred. No. 4. Mismatches 4.1e+02; Length 24; Indels 0: Gaps 0

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AAXOOS24

II AAX

XX AAC AAX

XX AAC AAX

XX Tai

XX Tai

XX Tai

XX Initiation

XX OS Syr

XX USE

XX OS

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX00524 standard; mRNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Target; antisense;
                                                                                                                                                                                                                                                             (TEXA ) UNIV TEXAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            interaction;
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                                                                                                                                                                                                                                                                                                                                                                           94US-00320507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    97US-00808474.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   selective rank; inhibition; ranking; stability;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for antisense oligonucleotides
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WPI; 1999-105098/09

Clark CL,

Gray DM;

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RESULT 269
AXXO0526/c
ID AXXO05
XX AXXO05
XX AXXO05
XX JO-MAR
XX Target
KW Intera
XX Synthe
XX Synthe
PN US5856
XX US5856
XX O5-JAN
XX O5-JAN
XX OF-OCT
XX TEXA
XX ITEXA
XX IT
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Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Selectively ranking nucleic acid molecules, for inhibitory efficiency - comprises determining the fraction a set of nearest-neighbour nucleic acid base pair types in a target sequence zone, substituting nearest-neighbour nucleic acid base pair fractions to determine the fractions and multiplying.
                                                                                                                                                                                          Selectively ranking nucleic acid molecules, for inhibitory efficiency comprises determining the fraction a set of nearest-neighbour nucleic acid base pair types in a target sequence zone, substituting nearestneighbour nucleic acid base pair fractions to determine the fractions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 12 A; 0 C; 12 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                   Clark CL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JAN-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Target; antisense; selective rank; inhibition; ranking; stability;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Poly-pyrimidine target sequence for antisense oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAR-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 interaction,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for antisense targeting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (TEXA ) UNIV TEXAS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGAGAGAGAGAGAGA 21
                                                                                                                                                                                                                                                                                                                                                                                                                      Gray DM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94US-00320507
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
Pred.
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0

This sequence represents a target mRNA for the generation oligonucleotides (ASO) in a method of selectively ranking

of antisense nucleic acid

Query Match Best Local Similarity

Score 17.8; DB 1; Pred. No. 4.1e+02;

Length

Sequence

24

BP; 12 A; 0 C; 12 G; 0 T;

0 U; 0 Other; DB 1;

and

Disclosure;

င္ပ

13-14; 72pp; English

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RESULT 270
AAF57997
ID AAF579
XX AAF579
XX AAF579
XX WCle
XX WCle
XX WCle
XX WC20
XX CCC
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              molecules for inhibitory efficiency. The method comprises: (a) determining the fraction of each of a set of 13 nearest-neighbour nucleic acid base pair types in a target sequence zone RNA:ASO-DNA hybrid nucleic acid sequence; (b) substituting nearest-neighbour nucleic acid base pair fractions into formulas to determine the fractions of each of a series of 13 nearest-neighbour nucleic acid base pair types to provide determined fractions, and (c) multiplying the fractions of the 13 nearest-neighbour nucleic acid base pair types by a stability ranking to the nucleic acid antisense sequence; where the results are ordered to produce a ranking. The process is used to rank nucleic acid sequences based on the stability of nucleic acid oligomer binding interactions to select sequence zones for antisense targeting
                                                                                       The present invention describes a method for producing a nucleic molecule comprising a Hoogsteen-paired RNA:NNA duplex capable of used as an antisense molecule and capable of recognising an RNA s to form a triplex. This involves Watson-Crick pairing. This is use antisense therapy, as it controls gene expression by causing transcription to be prevented. The present sequence is an example
                                                                                                                                                                                                                                                                                                                                                                 Generating nucleic acid molecule comprising Hoogsteen-paired RNAasteriskDNA pyrimidineasteriskpurine duplex for use as an molecule, by heating a triplex to dissociate a Watson-Crick pyrimidine strand.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hoogsteen-paired duplex; Watson-Crick pairing; triplex; antisense therapy; gene expression control; transcription;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic
                                                                                                                                                                                                                                                                                                         Example 1; Page 9; 23pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-159523/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-JUL-1999; 99US-00357424.
19-JAN-2000; 2000US-00487130.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-JUL-2000; 2000WO-US019783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JAN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Generating nucleic acid molecule comprising Hoogsteen-paired RNAasteriskDNA pyrimidineasteriskpurine duplex for use as an antisense molecule, by heating a triplex to dissociate a Watson-Crick paired
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19-JAN-2000; 2000US-00487130.
                                                 Nucleic acid
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RESULT 274
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The present invention describes a method for producing a nucleic acid molecule comprising a Hoogsteen-paired RNA:DNA duplex capable of being used as an antisense molecule and capable of recognising an RNA sequence to form a triplex. This involves Watson-Crick pairing. This is useful in antisense therapy, as it controls gene expression by causing transcription to be prevented. The present sequence is an example of a triplex sequence used in the methods of the invention
                                                                                                                                                                                             Generating nucleic acid molecule comprising Hoogsteen-paired RNAasteriskDNA pyrimidineasteriskpurine duplex for use as an molecule, by heating a triplex to dissociate a Watson-Crick projectie, by heating a triplex to dissociate a Watson-Crick projecties.
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                                                                                                                                              Example
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19-JAN-2000; 2000US-00487130.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hoogsteen-paired duplex; antisense therapy; gene e
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Pred. No. 4.1e+02;
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RESULT 276
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Generating nucleic acid molecule comprising Hoogsteen-paired RNAasteriskDNA pyrimidineasteriskpurine duplex for use as an molecule, by heating a triplex to dissociate a Watson-Crick [
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19-JAN-2000; 2000US-00487130.
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Pred. No. 4.1e+02;
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Pred. No. 4
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RESULT 277
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                                                                                                                                                                                                                                                                                                                                       The present invention describes a method for the identification of a CC nucleic acid having a sequence capable of targeting a gene of interest CC comprises: (a) a first database having a list of stability values for CC independent combinations of N(x); (b) a computing unit having a means for CC inputting data comprising N(x), data list, defining a nucleic acid GC sequence of interest to be targeted to provide a second database; and (c) CC aprogram capable of processing the first and second database to N(x) CC aprogram capable of processing the stable acid sequence capable of comparison, and a stability value of a nucleic acid sequence capable of unclaic acid having a sequence capable of targeting a gene of interest. The method is useful for identifying a CC mucleic acid having a sequence capable of targeting a gene of interest. The CC method may be usef to obtain thermodynamic parameters for 20 combinations of nearest-neighbour base pairs of DNA;RNA hybrid sequences. The Nearest-CC Neighbour Thermal Stability Program can process data for use in CC calculating thermal melting temperatures for phosphorothicate DNA;RNA CC hybrids. The program can be readily extended to predict the most stable triplex-forming sequences, or antigene oligomers. The present sequence of the present sequence
                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                     Query Match
                  Hybrid DNA
                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 12 A; 0 C; 12 G; 0 T; 0 U; 0 Other;
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03-MAR-1997;
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                                                     11-JUL-2001
                                                                                    AAF87784
                                                                                                                     AAF87784 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Col 14; 43pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying a nucleic acid having a sequence capable of targeting a gene of interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.
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                  sequence
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97US-00808474.
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Antisense DNA oligomer; ASO; identification; gene therapy; target; Nearest-Neighbour Thermal Stability Program; thermal melting temperature; phosphorothioate; disease treatment; DNA:RNA hybrid; 88.
                                                                                                                                                                    Gray DM,
                                                                                                                                                                                          07-OCT-1994;
03-MAR-1997;
                                                                                                                                                                                                                                 US6183966-B1
                                                                                                                                                                                                           22-JAN-1999;
                                                                                                                                                          2001-280429/29.
                                                                                                                                                                               UNIV TEXAS
                                                                                                                                                                    Clark CL;
                                                                                                                                                                                               94US-00320507.
                                                                                                                                                                                           97US-00808474.
                                                                                                                                                                                                           99US-00235614.
                                                                                                                                                                                SYSTEM.
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Identifying a nucleic acid having a sequence capable of targeting a genof interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.

Disclosure; Col 15; 43pp; English.

CC independent combinations of N(x); (b) a computing unit having a means for CC inputting data comprising N(x), data list, defining a nucleic acid CC sequence of interest to be targeted to provide a second database; and (c) CC a program capable of processing the first and second database; and (c) CC aprogram capable of processing the first and second database to N(x) CC comparison, and a stability value of a nucleic acid sequence capable of cargeting the gene of interest. The method is useful for identifying a CC nucleic acid having a sequence capable of targeting a gene of interest.

CC These nucleic acids are useful in gene therapy and disease treatment. The combine may be used to obtain thermodynamic parameters for 20 combinations of nearest-neighbour base pairs of DNA:RNA hybrid sequences. The Nearest CC Neighbour Thermal Stability Program can process data for use in CC calculating thermal melting temperatures for phosphorothicate DNA:RNA hybrids. The program can be readily extended to predict the most stable criplex-forming sequences, or antigene oligomers. The present sequence crepresents a hybrid DNA sequence which is used in the exemplification of the present sequence. The present invention describes a method for the identification of a nucleic acid having a sequence capable of targeting a gene of interest comprises: (a) a first database having a list of stability values for invention invention describes a method for the identification

Sequence 24 BP; 12 A; 0 C; 12 ູດ 0 T; 0 U; 0 Other;

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               S
                               Query Match
Best Local S
Matches 19
            1180 AGAGAAAGAGAGAGAGAAA 1200
                                19;
                                       Similarity
AGAGAGAGAGAGAGAGA 22
                                Conservative
                                       90.5%;
                               <u>,,</u>
                                        Score 17.8;
Pred. No. 4.
                                Mismatches
                              8;
4.1e+02;
2;
                                                1; Length 24;
                                 Indels
                                ç,
                               Gaps
                                 0
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RESULT 278
AAF87783/C
ID AAF877
XX
W
AAF876
XX
W
AAF166
XW
AAF166
XW
W
AAF166
XW
AAF16 Hybrid mRNA sequence SEQ ID NO:10. AAF87783; AAF87783 standard; mRNA; 24 11-JUL-2001 (first entry)

Antisense DNA oligomer; ASO; identification; Nearest-Neighbour Thermal Stability Program; phosphorothioate; disease treatment; DNA:RNA gene therapy; target;
thermal melting temperature;
hybrid; ss.

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RESULT 279
AAF87782/c
ID AAF87782 standard; D
XX AAF87782;
XX AAF87782;
XX I1-JUL-2001 (first
XX Pybrid DNA sequence
XX Antisense DNA oligom
XW Nearest-Neighbour Th
XW Phosphorothicate; di
XX OS Synthetic.
XX US6183966-B1.
XX
PD 06-FEB-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC nucleic acid having a sequence capable of targeting a gene of interest comprises: (a) a first database having a list of stability values for comprises: (a) a first database having a list of stability values for clindependent combinations of N(x); (b) a computing unit having a means for cinquenting data comprising N(x), data list, defining a nucleic acid computing data comprising N(x), data list, defining a nucleic acid computing to the targeted to provide a second database; and (c) sequence of interest to be targeted to provide a second database; and (c) comparison, and a stability value of a nucleic acid sequence capable of comparison, and a stability value of a nucleic acid sequence capable of targeting the gene of interest. The method is useful for identifying a nucleic acid having a sequence capable of targeting a gene of interest. The method may be used to obtain thermodynamic parameters for 20 combinations of nearest-neighbour base pairs of DNA:RNA hybrid sequences. The Nearest-CC Neighbour Thermal Stability Program can process data for use in CC calculating thermal melting temperatures for phosphorothicate DNA:RNA CC hybrids. The program can be readily extended to predict the most stable triplex-forming sequences, or antigene oligomers. The present sequence crepresents a hybrid many sequence which is used in the exemplification of the myseric many sequence which is used in the exemplification of the myseric.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 19
                                                                                                                                         Antisense DNA oligomer; ASO; identification; Nearest-Neighbour Thermal Stability Program; phosphorothioate; disease treatment; DNA:RNA
                                                                                                                                                                                                                          Hybrid DNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 24 BP; 0 A; 12 C; 0 G; 0 T; 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method for the identification of a nucleic acid having a sequence capable of targeting a gene of interest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Col 15; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gray DM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-OCT-1994;
03-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying a nucleic acid having a sequence capable of targeting a gene of interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1180 AGAGAAAGAGAGAGAGAAA 1200
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                                                                                                                                                                                                                                                                                                                                                                                                                                              23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clark CL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                               (first entry)
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97US-00808474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-00235614.
                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                          SEQ ID NO:9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                               24
                                                                                                                                                                                                                                                                                                                                               ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length 24;
                                                                                                                                       gene therapy; target; thermal melting tempe hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
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nucleic acid having a sequence capable of targeting a gene of interest comprises: (a) a first database having a list of stability values for congrises: (b) a cing a list of stability values for cc independent combinations of N(x), (b) a computing unit having a means for cc inputting data comprising N(x), data list, defining a nucleic acid sequence of interest to be targeted to provide a second database; and (c) cc a program capable of processing the first and second database; and cc capable of targeting the gene of interest. The method is useful for identifying a cr nucleic acid having a sequence capable of targeting a gene of interest. The method is useful for identifying a cr nucleic acid having a sequence capable of targeting a gene of interest. The method may be used to obtain thermodynamic parameters for 20 combinations of marest-neighbour base pairs of DNA:RNA hybrid sequences. The Nearest-Reighbour Thermal Stability Program can process data for use in calculating thermal malting temperatures for phosphorothicate DNA:RNA compared to predict the most stable triplex-forming sequences, or antigene oligomers. The present sequence crepresents a hybrid DNA sequence which is used in the exemplification of the present invention
RESULT 280
AAQ33955
ID AAQ339
XX AAQ339
XX AAQ339
XX O2-FEB
XX Sequen
CX Seq
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Best Local (
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02-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 24 BP; 0 A; 12 C; 0 G; 12 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying a nucleic acid having a sequence capable of targeting a gene of interest, for identifying nucleic acids for gene therapy, comprises using the Nearest-Neighbor Thermal Stability Program.
                                                                15-JAN-1991;
                                                                                                                          15-JAN-1992;
                                                                                                                                                                                           06-AUG-1992
                                                                                                                                                                                                                                                        WO9213102-A1
                                                                                                                                                                                                                                                                                                                  Bos taurus.
                                                                                                                                                                                                                                                                                                                                                                            genetic mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence upstream from a microsatellite from clone TGLA351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ33955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ33955 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-OCT-1994;
03-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-JAN-1999;
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Ж,
                                                                                                                                                                                                                                                                                                                                                                            selection; primers; OPTIPRIM; breeding; cattle; parentage;
cic mapping; traits; amplification; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (revised)
(first entry)
                                                                   91US-00642342
                                                                                                                             92WO-US000340.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00320507.
97US-00808474.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 17.8; DB 1; Length 24; Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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(GENM-) GENMARK

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RESULT 281
AAQ33606
ID AAQ336
XX AAQ336
XX AAQ336
XX AAQ336
XX PCR; E
XX PCR
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CC microsatellite (using the program OPTIRRIM). The microsatellites may be used to identify individuals, for parentage testing, and in the genetic conomically important traits esp. in cattle, to allow selective breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN creating in the program opticity of the microsatellite of the corresponance of the correct program opticity of the microsatellite of the correct program opticity of the microsatellite of the determinism of the correct program opticity of the microsatellite of the correct program opticity of the microsatellite of the determinism of the correct program opticity of the microsatellite of the determinism of the correct program opticity of the determinism of the determi
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genetic mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2003
02-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 25
                                      Table
                                                                                                      Polymorphic bovine DNA markers - used in genetic identification, mapping, and selective breeding.
                                                                                                                                                                                                             WPI; 1992-284684/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-AUG-1992.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9213102-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Microsatellite sequence from clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ33606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ33606 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1992-284684/34.
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                                                                                                                                                                                                                                                                                                                                                                                                               15-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Polymorphic bovine DNA markers - used in genetic identification, gene
                                                                                                                                                                                                                                                                                                                                               (GENM-) GENMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        selection; primers; OPTIPRIM; breeding
cic mapping; traits; amplification; ss.
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                               Page 172; 517pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 312;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACATCTGGTGGCCACATCAG 22
                                                                                                                                                                                                                                                                         Маввеу ЛМ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 5
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                   91US-00642342
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 7 C; 7 G; 6 T; 0 U; 0 Other;
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Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-AUG-2001; 2001US-0311040P
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The present invention relates to nucleic acid sequences that are complementary to particular genes, and can be used as probes for a variety of analyses such as gene expression analysis. Each probe comprises 9 or more consecutive nucleotides from at least one of 14936 nucleotide sequences defined in the patent, or their perfect sense match, antisense match or antisense mismatch oligonucleotides. The probes may be used in an array comprising at least 10 distinct

New probe array useful e.g. for monitoring gene expression levels, analyzing genetic variations, or for hybridizing tag-labeled compound comprises multiple nucleic acid probes.

compounds,

Claim 1;

SEQ ID NO 10652; 9pp; English.

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CC nucleic acid probes. The array is useful in monitoring gene expression CC levels by hybridisation to a DNA library, in analysing genetic CC variations, and in hybridising tag-labelled compounds. The probes are CC useful for identifying family members of a gene. The probes are also CC useful in in situ hybridisations, in screening cDNA or genomic libraries CC (or derived subclones) for additional clones containing segments of DNA CC that have been previously isolated and sequenced, in Southern, northern, CC or dot-blot hybridisation of genomic DNA to identify or detect the CC sequence of any gene or detect specific mutations in any gene, and in CC mapping the 5 termini of mRNA molecules by primer extensions. The CC mucleic acid sequences of the invention are also useful as PCR primers. The invention provides a large collection of nucleic acid sequences of the invention of nucleic acid sequences of the invention are also useful as PCR primers. CC Complementary to particular genes with a wide range of analytical uses. CC The sequence data for this patent was obtained in electronic format CC directly from the USPTO web site at sequences of the invention. Note:
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Best Local S
Matches 19
                                                                                                 New calix(4)arene-nucleoside hybrid useful in gene therapy has one nucleoside attached to a calix(4)arene group through amide and is derived from a calix(4)arene having amino groups.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Calix(4) arene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Calix(a)arene-oligonucleotide hybrid
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                                                                     Claim
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bonding,
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The present sequence is that of a calix(4)arene-oligonucleotide hybrid the invention, which includes a calix(4)arene-nucleoside (preferably thymidine) derivative. The calix(4)arene-oligonucleotide hybrid function

of.

Query Match

Sequence

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Best Local 9
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                               The invention relates to a system for detecting gene expression, which comprises one or two isolated DNA molecules that detect expression of gene, where the gene corresponds to any of 8143 oligonucleotides (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is usef for leukocyte expression profiling. It is particularly useful for diagnosing a disease, monitoring (rate of) progression of a disease, predicting therapeutic outcome, determining prognosis for a patient, predicting disease complications in an individual or monitoring respon to treatment in an individual. The diseases include cardiac allograft rejection, kidney allograft rejection, liver allograft rejection, atheroselerosis, congestive heart failure, systemic lupus erythematosurheumatoid arthritis, osteoarthritis or cytomegalovirus infection
                                                                                                                                                                                                                                                                                     New system for leukocyte expression profiling, diagnosing a disease, or monitoring (the rate of) progression of a disease, e.g. atherosclerosis or congestive heart failure, comprises diagnostic oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T7; leukocyte; gene expression profiling; allograft rejection;
atherosclerosis; congestive heart failure; systemic lupus erythematosus;
rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;
                                                                                                                                                                                                                                                    Claim 1; Page 341; Opp; English.
                                                                                                                                                                                                                                                                                                                                                                                          Wohlgemuth J, F
Ly N, Woodward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-OCT-2000; 2000US-0241994P.
08-JUN-2001; 2001US-0296764P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-OCT-2001; 2001WO-US047856.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200257414-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human leukocyte gene expression profiling probe SEQ ID NO 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABZ00511
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                                                                                                                                                                                                                                                                                                                                                                                                                                            (BIOC-) BIOCARDIA INC
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                                                                                                                                                                                                                                                                                                                                                          2002-636525/68.
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d R, Quertermous T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
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Pred. No. 4.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                        Altman P, T, Johnson
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                                                                                                                                                                                                          detect expression of a
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RESULT 285
ACA89736
ID ACA897
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AAV04338
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Matches 22; Conservative
                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                    The invention describes a method of identifying polymorphic markers of herbicide resistance in a plant. The method involves: isolating genomic DNA from an herbicide susceptible plant and an herbicide resistant plant of the same species, performing genetic analysis and identifying differences between their genomic DNA, identifying the difference that correlate with herbicide resistance or susceptibility, thus identifying polymorphic markers. The method is useful for identifying polymorphic markers. The method is useful for identifying polymorphic markers of herbicide resistance in a plant e.g. Conyza canadensis, Lolium rigidum and goosegrass species, where the herbicides include glyphosate, paraquat and sulfonyl urea moieties. This sequence represents a primer associated with the identification of polymorphic markers of herbicide resistance
                                         AAV04338 standard; DNA;
                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 6; Page 38; 168pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying polymorphic markers of herbicide resistance in a plant, by analyzing genomic DNA of herbicide resistant and susceptible plants, and identifying difference that correlate with resistance or susceptibility.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polymorphic marker; herbicide resistance; herbicide susceptible plant; herbicide resistant plant; Conyza canadensis; Lolium rigidum; goosegrass; glyphosate; paraquat; sulfonyl urea moiety; PCR; primer; ss.
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                                                                                                                                        AGAGAGAGAGAGAGAH 21
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Pred. No. 4.
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Best Local Similarity
                Human; corticoliberin 26; cytostatic; virucide; immunodulatory; antiinflammatory; haemostatic; gene therapy; malignant tumour; haemopathy; HIV infection; immunological disease; inflammation;
                                                                                                                                                                               AAH73990;
                                                                                                                                                                                                                      AAH73990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                             Human corticoliberin 26 coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        necrosis and osteopaenia
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03-SEP-1996;
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                                                                                                                                                                                                                    standard; DNA;
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osteoporosis; Paget's disease; hypercalcaemia; hyperparathyroidism; rheumatoid arthritis; osteomyelitis; osteolytic metastasis; periodontal bone loss; bone necrosis; osteopaenia; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Osteoprotegerin; antibody; diagnosis; affinity purification; recombinant production; transgenic animal; treatment; prevention; antiense oligonucleotide; probe; detection; screening; bone disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Primer used in preparation of osteoprotegrin products.
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Chang
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Nucleic acid encoding osteoprotegerin - useful for treatment of diseases involving excessive bone loss, e.g. osteoporosis.

The present sequence is a primer, which was used in the preparation of osteoprotegerin (OPG) products. Anti-OPG antibodies can be used in OPG diagnostic assays, and as affinity purification materials. The OPG cDNA can be used to express recombinant OPG and to generate transgenic animals. It can also be used to regulate the level of OPG in mammals, specifically to increase OPG levels, however the use of antisense sequences is also contemplated. Fragments of the cDNA can be used as probes to detect OPG expressing cells and tissue, and to screen cDNA libraries for related sequences. OPG can be used to treat or prevent bor diseases, hypercalcaemia, hyperparathyroidism, rheumatoid arthritis, osteolytic metastases, periodontal bone loss, bone bone

G; 7 T; 0 U; 0 Other;

0 Score 17.6; DB 1 Pred. No. 4.4e+02 0; Mismatches -Length Indels 0 Gaps

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CAGATGCGGAAGCTGTTCAGCTTG 4686

PCR primer

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Best Local S
Matches 20
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                                                                                                                                                                                                                                       Human; FD 17; cytostatic; virucidal; immunomodulatory; haemostatic; antiinflammatory; gene therapy; malignant tumour; haemopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 24 BP; 11 A; 2 C; 2 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human corticoliberin 26 and encoded polynucleotide, used in diagnosis treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and inflammation.
                                                                                              02-MAR-2000; 2000CN-00111868
                                                                                                                    26-FEB-2001; 2001WO-CN000221
                                                                                                                                                                   WO200164729-A1
                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                          Human FD 17 PCR primer 2 SEQ ID NO:4.
                                                                                                                                                                                                                                                                                                 16-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           example from the present invention
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 New human polypeptide FD
                         WPI, 2001-550164/61.
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 for diagnosing
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Pred. No. 4
                                                                        SHANGHAI
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 and treating malignant tumor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Length 24;
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Best Local S
Matches 20
 The present invention relates to a method for treating conditions leading to bone loss. The method comprises administering a purified and isolated osteoprotegerin (OPG) protein (ARF57836-ARF57838 and ARB66974-AAB66976) in conjunction with other substances such as tumour necrosis factor-alpha (TNF-alpha) inhibitors, interleukin (IL)-6, -8 and -18 inhibitors, ICE modulators, fibroblast growth factor (FGF)1-10 modulators and/or platelet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bone loss; osteoprotegerin; OPG; rheumatoid arthritis; hyperalgesia; multiple sclerosis; osteoporosis; osteomyelitis; asthma; inflammation; systemic lupus erythematosus; graft-versus-host disease; septic shock; acute pancreatitis; Alzheimer's disease; anorexia; atherosclerosis; paicoronary condition; myocardial infarction; cancer; diabetes; psoriasis; endometriosis; fever; glomerulonephritis; inflammatory bowel disease; ischaemia; Parkinson's disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes the human FD 17 protein (I). (I) has cytostatic, virucidal, immunomodulatory, antiinflammatory and haemostatic cytostatic. The polymucleotide encoding (I) can be used in gene therapy. (I) and the polymucleotide encoding it are applicable in the diagnosis and treatment of malignant tumour, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations. The present sequence represents a PCR primer for human FD 17, which is
                                                                                                                                                   Treating conditions leading to bone loss such as rheumatoid arthritis, multiple sclerosis and asthma, comprises administering an osteoprotegerin protein in conjunction with e.g. inhibitors of interleukin and tumor
                                                                                                                                                                                                                                                                                                                   09-JUL-1999;
09-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hemopathy, human immunodeficiency virus (HIV) infection, diseases and inflammations.
                                                                                                          Example 5; Page 88; 316pp; English.
                                                                                                                                                                                                                                                      Boyle WJ,
                                                                                                                                                                                                                                                                                                                                                                 07-JUL-2000; 2000WO-US018667.
                                                                                                                                                                                                                                                                                                                                                                                                18-JAN-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human OPG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF57740;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Page 11; 36pp; Chinese.
                                                                                                                                         factor alpha.
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                                                                                                                                                                                                                                                      Lacey DL,
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                                                                                                                                                                                                                                                                                     INC.
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99US-00457647.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
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Pred. No. 4.4e+02;
0; Mismatches 4
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disease;
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fibroblast growth

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RESULT 290
ABA05517/c
ID ABA055
XX ABA055
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XX Human;
KW Human;
KW Viruci
KW haemop
KW immuno
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Matches
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                                                                                             The invention relates to an isolated polypeptide of human tre carcinogenic gene protein 10.56 comprising a 96 residue amino acid sequence, fully defined in the specification, or its fragment, analogue or derivative. The polypeptide is useful in the diagnosis and treatment of malignant tumours, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammatory disorders. The present sequence is a primer used to amplify a polynucleotide encoding
       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human tre carcinogenic gene protein 10.56 and encoding polynucleotide, used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; Tre carcinogenic gene protein 10.56; cytostatic; haemostatic; virucide; immunomodulatory; antiinflammatory; gene therapy; cancer; haemopathy; human immunodeficiency virus; HIV; infection; immunological disease; inflammatory disorder; PCR primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                                     Example 2; Page 17; 36pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-083078/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-MAY-2000; 2000CN-00115824.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-MAY-2001; 2001WO-CN000833
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-FEB-2002
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                                                                       sequence is a p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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       24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              carcinogenic gene
   BP; 0
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   A; 3 C; 0 G; 21 T; 0 U;
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                                                                           invention
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immunological diseases
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No. 4.4e+02;
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       0 Other;
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                                                                            The invention relates to the use of phytanic acid or its derivatives for the treatment or prevention of diabetes mellitus. The invention also relates to a method for treating or preventing non-insulin dependent diabetes mellitus (NIDDM) or other conditions associated with impaired glucose tolerance such as obesity using phytanic acid or its derivatives. The phytanic acid, their derivatives or their precursors are useful as pharmaceutical compounds or supplements to foods or feeds for the treatment or prevention of type II or NIDDM, hyperlipidaemia, hypertriglyceridaemia, hyperinsulinaemia, syndrome X, hypertension, hypertriglyceridaemia, impaired glucose tolerance and related obesity. They are also useful in insulin therapy in combination with known active compounds. The present sequence is glucokinase cDNA specific reverse transcription PCR (RT-PCR) probe used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New composition comprising phytanic acid or its derivatives, useful for treating or preventing non-insulin dependent diabetes mellitus, impaired glucose tolerance and related obesity.
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LD ABAO5472
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                                                       RESULT 293
ABA99264/c
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Best Local Similarity
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ABA99264;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP, 11 A; 2 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             recombinant production and antagonist, encoding polynucleotide and application. The polypeptide is useful for treating primary T lymphocyte immune deficiency disease, human immunodeficiency virus infection, other immune diseases, various tumours, embryonic development disturbance disease, growth and development obstruction disease, inflammation and haemopathy. The present sequence is that of a PCR primer, useful to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human immune response polynucleotide useful for
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                                                          ABA99264 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to human immune response factor 64 polypeptide, its recombinant production and antagonist, encoding polynucleotide and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 3; Page 17 (Disclosure); 34pp; Chinese
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                                                          BP
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Pred. No. 4.
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Pred. No. 4.4e+02
                                                                                                                                                                                                                                                                                                                                                         4.4e+02
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RESULT 294
ADG16126/c
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AC ADG16126;
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DT 26-FEB-2004 (first entry)
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Compound activity charactory
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phenotypic attribute; can
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multiple biological descrivity
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01-NOV-2001.
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Best Local S
Matches 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes a novel human tre oncogene 10.56 which has cytostatic, haemostatic, virucide, immunomodulatory and antiinflammatory activity and can be used for gene therapy. The polypeptide of the invention and its encoding polynucleotide are used in diagnosis and treatment of malignant tumours, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammations. This sequence represents an RT-PCR primer used in the amplification of the human tre oncogene 10.56 gene which is described in the disclosure of the
                                                                                                                                             compound activity characterisation; cellular activity; phenotypic attribute; candidate medicine; candidate tr multiple biological descriptor; cell marker; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Oncogene; tra oncogene 10.56; human; treatment; gene therapy; cytostatic; haemostatic; virucide; immunomodulatrory; antiinflammatory; diagnosis; malignant tumour; haemopathy; human immunodeficiency virus; HIV infection; immunological disease; inflammation; PCR primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                human tre oncogéne 10.56 and encoding polynucleotide, used in diagno and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
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                                                                                                                                                                                                                    Compound activity characterisation-related oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                        24 AAAAAAAAGAAAGAAAGAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 17.6; DB 1
Pred. No. 4.4e+02
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24-APR-2001; 2001WO-US013248.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   compound activity characterisation; cellular activity; phenotypic attribute; candidate medicine; candidate tr multiple biological descriptor; cell marker; ss.
                                                                                          Oestreicher DR,
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20-FEB-2001; 2001US-00790214.
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20-FEB-2001;
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                                                                                                                                                                                 (CYTO-)
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2001US-00790214.
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Pred. No. 4
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                                                                                          Vaisberg EA,
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RESULT 296
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cells with a cellular activity and images of other cells treated with the compound, quantitatively characterising phenotypic attributes of the image of cells with a cellular activity to produce a target phenotype for the cellular activity and that of the image of other cells to produce a second phenotype for the compound, and comparing the two phenotypes to determine whether the compound and comparing the two phenotypes to determining information about structure of living cellular activity. The invention determining information about structure of living or non-living cells exposed to substances. The invention is also useful for identifying promising candidates in a search for new and better medicines and treatments using candidates in a search for new and better medicines and treatments using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Characterizing cellular activity of compound, by receiving image cells with known activity and images of cells treated with compound characterizing phenotypic attributes of images and comparing the
The invention relates to a novel zinc finger protein designated 11.55. Also disclosed are the polynucleotide encoding it, and a process for preparing the polypeptide using DNA combination techniques. The application of the polypeptide is in treating diseases such as cancer and human immunodeficiency virus (HIV) infection, The current sequence represents a zinc finger protein 11.55 related PCR primer
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                                                                                                                                                                                                               Mao Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zinc finger protein 11.55 related PCR primer #SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified
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                                                                                                                                               Polypeptide-zinc finger protein 11.55 and polynucleotide encoding
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activity of a compound on cell.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         primer;
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                                                                                                                                                                                                                                                 BODE GENE
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Pred. No. 4.4e
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                                                                                                                 33pp; Chinese
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RESULT 297
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                                                                                                                                                                                                                                                     The present invention describes a method for identifying a pancreatic ductal carcinoma-specific gene. The method comprises preparing pancreatic ductal cells from a pancreatic ductal carcinoma patient and a normal cindividual. Also described: (1) a method of testing for pancreatic ductal carcinoma; (2) a method for identifying a drug candidate compound for treating or preventing pancreatic ductal carcinoma; as an active pancreatic ductal carcinoma comprising, as an active conjugation, a molecule selected from an antibody binding to a protein conjugation of the pancreatic ductal carcinoma-specific gene and an active conjugation of the pancreatic ductal carcinoma-specific gene and conjugation of the method of (2). A pancreatic ductal carcinoma-specific gene has cytostatic activity, and can be used in gene therapy. The method conjugation proparing compounds for treating and/or preventing pancreatic ductal carcinoma-specific gene cuseful in identifying a pancreatic ductal carcinoma-specific gene cuseful preparing compounds for treating and/or preventing pancreatic ductal carcinoma-specific gene cuseful carcinoma. The present sequence represents a PCR primer which is
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying a pancreatic ductal carcinoma-specific gene, useful in treating or preventing pancreatic ductal carcinoma, by preparing pancreatic ductal carcinoma patient normal individual.
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                                                                                                                                                                           Sequence 24 BP; 9 A; 8 C; 4 G; 3 T; 0 U; 0 Other;
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nilarity 83.3%;
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                                                                                     Score 17.6;
Pred. No. 4.
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                                                                                     4.4e+02;
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Immuno
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SIM Prolife
KW Plasma
KW Chroni
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문
                                                                                                                                                                                                                                                                                                                                      This invention relates to novel immunostimulatory oligonucleotides that CC contain a non-palindromic sequence motif. Specifically, it refers to DNA coligonucleotides (without a CPG motif), which can stimulate an immune CC response in animals of the order of primate, including humans. The immune response is characterised by the proliferation, differentiation, cytokine can dantibody production in B-cells, as well as cell differentiation and cytokine production in plasmacytoid dendritic cells. The present compensation describes immunomodulator compositions that also comprise an antigen selected from, for example, viruses, bacteria, parasites, tumour cells and glycolipids. As such, these DNA oligos can be used in gene ctherapy for inducing B-cell activation, treating, preventing or ameliorating an immune system disorder or a tumoural disease including chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonucleotide sequence is an immunostimulatory non-CpG variant DNA oligo, used in an exemplification of the invention.
                                                                                                                                         Matches
                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ss; non-CpG; immunostimulatory; non-palindromic; immune response; proliferation; differentiation; cytokine; antibody production; B-cell; plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma; renal cell carcinoma.
                                                                                                                                                                                                                                                                                  Sequence 24 BP; 1 A; 1 C; 1 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 14; SEQ ID NO 21; 139pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-053333/05.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAY-2002; 2002CA-02388049
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (IMMU-) IMMUNOTECH SA.
                                                                                                                                                                              Local
                                                                      5396 AAAATACAAAAAAGAAAAAATGAA 5419
                                                                                                                                         l Similarity
20; Conserv
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                                                                                                                                         0.3%;
ilarity 83.3%;
Conservative
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                                                                                                                                         0; Mismatches
                                                                                                                                                                              Score 17.6;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24
                                                                                                                                                                                 4.4e+02
                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                               Length 24;
                                                                                                                                                Indels
                                                                                                                                         0;
                                                                                                                                         Gaps
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RESULT 299 ADG75920/c ID ADG759

ADG75920 standard; DNA; 24 BP.

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RESULT 300
ADG75918/c
ID ADG759
XX
AC ADG759
XX
DT 11-MAR
XX
DE Immuno
XX
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                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 20
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plasmacytoid dendritic cell; immunomodulator; gene therapy;
chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                  Immunostimulatory non-CpG oligonucleotide IMT 173 SeqID 20
                                                  11-MAR-2004
                                                                                   ADG75918
                                                                                                                ADG75918 standard;
                                                                                                                                                                                                                                                                                                                               Sequence 24 BP; 1 A; 1 C; 1 G; 21 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                 AAAAAAAAAAACAAATGAAAA 1
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                                                  (first entry)
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                                                                                                                                                                                                                                                                               83.3%;
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                                                                                                                 24
                                                                                                                 ВP
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                                                                                                                                                                                                                                                                                              Score
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                                                                                                                                                                                                                                                                                              17.6;
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                                                                                                                                                                                                                                                                                             DB 1; Length 24;
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ss; non-CpG; immunostimulatory; non-palindromic; immune response; proliferation; differentiation; cyrokine; antibody production; B-plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                                                                                                                                                                                                                New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.
                                                                                                                                                                                                                                                                                                                         30-MAY-2002; 2002CA-02388049.
                                                                                                                                                                                                                                                                                                                                            30-MAY-2003; 2003WO-EP005691.
                                                                                                                                                                                                                                                                                                                                                                 11-DEC-2003
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                                                                                                                                                                                                                                                                                                                                                                                     WO2003101375-A2
                                                                                                                                                                                                                                                                                                                                                                                                                             renal cell carcinoma.
                                                                                                                                                                                                                                                                                                    (IMMU-) IMMUNOTECH SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              B-cell;
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response in animals of the order of primate, including humans. The immune response is characterised by the proliferation, differentiation, cytokine and antibody production in B-cells, as well as cell differentiation and cytokine production in plasmacytoid dendritic cells. The present invention describes immunomodulator compositions that also comprise an antigen selected from, for example, viruses, bacteria, parasites, tumour cells and glycolipids. As such, these DNA oligos can be used in gene therapy for inducing B-cell activation, treating, preventing or ameliorating an immune system disorder or a tumoural disease including ameliorating an immune system disorder or a tumoural disease including chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonucleotide sequence is an immunostimulatory non-CpG variant DNA oligo, used in an exemplification of the invention. contain a non-palindromic sequence motif. Specifically, it rolligonucleotides (without a CpG motif), which can stimulate This invention relates novel immunostimulatory oligonucleotides that Specifically, it refers to DNA an n immune The immune on, cytokine

Claim 14; SEQ ID NO 20; 139pp; English.

melanoma.

e.g.

Sequence 24 BP; 1 A; 1 C; 1 G; 21 T; 0 U; 0 Other;

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S
                 Query Match
Best Local S
Matches 20
5394 АЛАЛАТАСЛАЛАЛАБЛАЛАЛТ 5417
                            Similarity
                  Conservative
                          83.3%;
                  0;
                            Score 17.6;
Pred. No. 4.
                           Pred.
                   Mismatches
                            4.4e+02;
                                   DB 1;
                  4;
                                  Length 24;
                   0
                  Gaps
                   0
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24

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ADM28709
ID ADM2877
XX ADM2877
XX ADM287
XX ADM287
XX ADM287
XX Human
DE Human
XX Hu
Human; OPG; ss; primer; bone resorption; excessive bone loss; osteoporosis; Paget's disease of bone; hypercalcaemia; hyperparathyroidism, steroid-induced osteopaemia; rheumatoid arthritis; osteomyelitis; osteolytic metastasis; periodontal bone loss; Cushing's syndrome; acromegaly; osteogenesis imperfecta; homocystinuria; Menke's syndrome; Riley-day syndrome; immobilisation of extremity; tumour; haematologic malignancy; multiple myeloma; lymphoma; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADM28709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human OPG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer #2.
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Contemprison relates to a purified and isolated polypeptide having anino terminus at residue 22, and 1-215 amino acids are deleted for from carboxy terminus of human OPG polypeptide. Also included are an isolated multeic acid encoding an OPG polypeptide. Also included are an excitor comprising ope NA, a host cell transformed or transfected with the cyetchor, a transgenic mammal comprising the cell, producing OPG, a compryising an amino acid sequence of at least about 164 amino caids comprising four cysteine-rich domains characteristic of the cysteine rich domains of tumour necrosis factor receptor extracellular regions (and an activity of increasing bone density), an antibody (Ab) or cits fragment which specifically binds to OPG, a composition comprising composition comprising composition comprising composition comprising composition comprising the substance of the cysteine rich domains of tumour necrosis factor receptor extracellular regions (and an activity of increasing bone density), an antibody (Ab) or cits fragment which specifically binds to OPG, a composition comprising composition comprising composition comprising composition comprising composition comprising the composition comprising composition comprising composition comprising composition multimer consisting of osteoprotegerin monomers.

Can dan osteoprotegerin multimer consisting of osteoprotegerin monomers. The misch involves incubating the sound Ab. OPG is useful for compositions that allow assessing the ability of a candidate substance to bind to OPG. OPG NA is composition to OPG and detecting the bound Ab. OPG is useful for regulating the levels of OPG in an animal (human). The nucleic carling promotes an increasing in trissue level of OPG. OPG NA is useful for regulating bane disorder e.g. excessive bone loss of steoporosis, Paget's cubations of provide animal composition of archivoid bornone and their analogues, the composition of provide animal composition of activation of activation and acromegaly), careditary and congenital with the provi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel osteoprotegerin useful for treating conditions resulting in loss such as osteoporosis, hypercalcemia, Paget's disease of bone, loss caused by rheumatoid arthritis or osteomyelitis.
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12-AUG-1998;
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LACEY D L.
CALZONE F J.
CHANG M.
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present sequences is an OPG
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96US-00706945.
96US-00771777.
98US-00132985.
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   cDNA cloning PCR
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Sequence 24

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Matches 20
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                                                                                                                                                                                                                           The invention relates to a novel isolated nucleic acid encoding a Monarch -1, CATERPILIER (CARD [Caspase recruitment domain], transcription enhancer, R (purine)-binding, pyrin, lots of leucine repeate) 11.2, CATERPILIER 11.3, CATERPILIER 16.2 or CIAS1 (cold-induced autoinflammatory syndrome 1) polypeptide comprising the amino acids encoded by exon 6 and lacking the amino acids encoded by exon 4 or its fragment. The nucleic acid of the invention demonstrates antiinflammatory and cytostatic acityities and may be useful in preparing a composition for treating an inflammatory disease or cancer, possibly via gene therapy. The current sequence is that of a CATERPILER-related RT-PCR primer which was used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New nucleic acid encoding Monarch-1, CATERPILLER 11.2, CATERPILLER 11.3, CATERPILLER 16.1, CATERPILLER 16.2 or CIAS1 polypeptide, useful in preparing a composition for treating inflammatory disease or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cold-induced autoinflammatory syndrome 1; antiinflammatory; cytostatic; inflammatory disease; cancer; gene therapy; human; purine; CATERPILLER 19.3; chromosome 19q13; multiple sclerosis; PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATERPILLER 11.3; C
                                                                                                                                                                      Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2; SEQ ID NO 119; 205pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-348215/32
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Monarch-1; CATERPILLER 11.2; caspase recruitment domain; CARD, transcription enhancer, R-binding, pyrin, lots of leuc CATERPILLER 11.3; CATERPILLER 16.1; CATERPILLER 16.2; CIAS1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RT-PCR primer 2 used to analyse human Monarch-1 expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-AUG-2004
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1614 CTTCTACTTCAGCTGCAGAGAGCT 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4663 CAGATGCGGAAGCTGTTCAGCTTG 4686
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                                                                                      Similarity
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                                                                                                                                                                         BP; 6 A;
                                                       Conservative
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                                                                                                                                                                      5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                83.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         83.3%;
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                                                                                   Score 17.6;
Pred. No. 4.
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Pred. No. 4.
                                                 Mismatches
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                                                                                      4.4e+02
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                                                                                                                  DB 1;
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RESULT 304
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ADP27725/c
ID ADP27725 standard;
                                                                                                                                                                                                                                                                    associated with EGFR (epidermal growth factor receptor) positive cancer. Specifically, it refers to a gene expression profiling method that can provide a prediction as to whether a patient is likely to respond well to treatment with an EGFR inhibitor. The present invention describes the quantitative analysis of the expression level of the RNA transcript of at least one gene selected from the group of CD44V3, CD44V6, DB5, GRO1, KRT17, LAMC2 or their products thereof. It further provides a cDNA microarray containing named genes that represent prognostic transcripts which are useful for determining whether a patient diagnosed with an EGFR expressing head or neck cancer or colon cancer exhibits elevated or decreased expression levels of these genes compared to normal. As such, these methods are also useful for prognosing or predicting the likelihood of cancer-attributable death or prognession, including recurrence and metastatic spread of a neoplastic disease, as well as drug resistance. This oligonucleotide sequence is a PCR primer used to amplify a human PCR amplicon DNA sequence used as a prognostic cancer marker, given in an exemplification of the invention.
                                                                                                                                                                      Query Match
Best Local S
Matches 20
                 AAX33267 standard; DNA; 25
                                                                                                                                                                                                                                      Sequence 24 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Prognosing a patient with EGFR-expressing colon cancer comprises subjecting a sample comprising EGFR-expressing cancer cells to quantitative analysis of the expression level of the RNA transcript
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 microarray; head and neoplastic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human; primer; PCR; prognostic marker; EGFR; epidermal growth factor receptor; cancer; gene expression profiling; microarray; head and neck cancer; colon cancer; metastatic spread;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel method concerning prognostic markers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Baker JB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GENO-)
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                                                                                                                                   3257 AGGACCTGGCCTCTGTGCTTAGTG 3280
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VALL HEBRON UNIV HOSPITAL.
                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 162; 113pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene e.g.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cronin MT,
                                                                                                                                                                      0.3%;
llarity 83.3%;
Conservative
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                                                                                                                                                                                                                                        A; 9 C; 5 G; 3 T; 0 U; 0 Other;
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RESULT 305
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Matches 20; Conserv
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15-OCT-1997;
08-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes DNA which participates in the regulation of expression of PEBP2 alpha A gene. The DNA produces a regulator protein with the activity of promoting bone formation and can serve as a promote for prevention and treatment of bone diseases including osteoporosis. The present sequence represents a PCR primer used in an example from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA regulating expression of PEBP2 alphaA gene to produce regulator protein, useful as promoter for prevention or/and treatment of bone diseases e.g. osteoporosis.
                                                                                                                                                                                                                         DNA sequence analysis; sequencing; protein sequence; protein structure; gene typing; organ donation; bacteria identification; 16s rRNA; HLA;
                                                                                                                                                                                                                                                                                                                                                                                                           AAC96663;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAC96663 standard;
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                                                                                                   WO200065088-A2
                                                                                                                                                                                                 human leukocyte antigen; PCR primer; 88.
                                                                                                                                                                                                                                                                                                        HLA HLA-A gene PCR primer #40
                                                                                                                                                                                                                                                                                                                                                          26-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention
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nilarity 83.3%;
Conservative
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97JP-00299407.
98JP-00114135.
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Pred. No. 4.5e+02;
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02-NOV-2000

20-APR-2000; 2000WO-EP003636.

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RESULT 306
ABN13298
ID ABN132
XX ABN132
XX ABN132
XX Human
XX Human
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Best Local
                       04-OCT-2000;
30-JAN-2001;
                                                                                                                                                                                                                                                                         26-MAY-2000;
21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               muscle; myosin; skeletal muscle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human GDMLP-1 25-mer scanning SEQ ID NO:5 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention provides a method for identifying a set of extendible primers which can be used in the identification, typing and classification of genes. This can then be used to predict protein sequence and structure, in organ donation to match the organ with the receiver, and to identify bacteria in a sample. The method can be used type the human leukocyte antigen genes (HLA) and 16s rRNA genes in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying extendible primers for use in identification, or classification of a nucleic acid of an organism, allele or gene such as class 1/2 HLA comprises identifying all possible nucleotide sequences of
                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200192524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; genome-derived myosin-like protein 1; GDMLP-1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABN13298 standard; DNA; 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-APR-1999;
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                     ; 2000US-0207456P.
; 2000US-023458PP.
; 2000US-0236359P.
; 2001WO-US000661.
; 2001WO-US000663.
; 2001WO-US000664.
; 2001WO-US000665.
; 2001WO-US000665.
; 2001WO-US000665.
; 2001WO-US000667.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chromosome 22; gene disorder; amplicon;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
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Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               therapy; vaccine; heart disease; screening; ss.
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CC protein 1 (hGDMLP-1). The protein and polynuclectide sequences of hGDMLP-1 cnucleic acids can be used in gene therapy and vaccine production. The hGDMLP-1 cc nucleic acids can be used as probes to detect, characterise and quantify cc hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 cc protein variants having desired phenotypic improvements, and for cc expressing the proteins. The hGDMLP-1 proteins or polypeptides may be comed as immunogens to raise antibodies that specifically recognise hGDMLP-1 could an immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration cand/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as compared to the specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as compared to capture probes for surface-enhanced laser desorption ionisation, as compared to capture probes for surface-enhanced laser desorption ionisation, as compared to capture probes for surface-enhanced laser desorption ionisation, as compared to capture in hGDMLP-1 captured to capture in hGDMLP-1 compared to capture in hGDMLP-1 compared to capture associated with the expression of hGDMLP-1, in particular heart compared to capture capture in the exemplification of the present invention. N.B. compared to capture printed 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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Sequence
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BP; 8
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A, 3 C; 11 G; 3 T; 0 U;
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   0 Other;
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ABN12957
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AC ABN:
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Best Local S
Matches 20
   26-MAY-2000;
21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
30-JAN-2001;
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       ; 2000US-0207456P.
; 2000US-0234687P.
; 2000US-0236359P.
; 2000GB-00024263.
; 2001WO-US000661.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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Pred. No. 4.5e+02;
D; Mismatches 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO:5 sequence SEQ ID NO:12949.
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Matches 20; Conserv
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30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
30-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser description ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The polymucleotide sequences encoding hGDMLP-1 may be used for diagnosing a disorder associated with the expression of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence represents an oligomer used in the screening of the hGDMLP-1 sequence in the exemplification of the present invention. N.B. The sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein variants having desired phenotypic improvements, and for expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration
                                                                                                                    Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; hear muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acids can be used as probes to detect, characterise and quantify hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a human genome-derived myosin-like protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-1 can be used in gene therapy and vaccine production. The hGDMLP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser
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30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AEOM-)
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disorder; a
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                                                                                                                                                                                                          SEQ ID NO:4 sequence SEQ ID NO:4832.
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RESULT 309
ABN04839
ID ABN048
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AC ABN048

ABN04839 standard; DNA; 25

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                                                                                                                                                           CC protein 1 (hGDMLP-1). The protein and polymucleotide sequences of hGDMLP-1 CC nucleic acids can be used as probes to detect, characterise and quantify CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to protein variants having desired phenotypic improvements, and for CC provide initial substrates for the recombinant engineering of hGDMLP-1 CC protein variants having desired phenotypic improvements, and for CC used as immunogens to raise antibodies that specifically recognise hGDMLP-1 proteins, as standards in assays used to determine the concentration CC and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as therapeutic supplement in patients having specific deficiency in hGDMLP-1 CC production, and in vaccines or for replacement therapy. The CC production and in vaccines or for replacement therapy. The CC production and in vaccines or for replacement therapy. The CC disorder associated with the expression of hGDMLP-1, in particular heart CC disorder associated with the expression of hGDMLP-1, in particular heart CC hGDMLP-1 sequence represents an oligomer used in the screening of the CC hGDMLP-1 sequence in the exemplification of the present invention. N.B. CC the sequence data for this patent did not form part of the printed CC specification, but was obtained in electronic format directly from WIPO CC at fig. wipo.int/pub/published_pct_sequence
                                                                   Matches
                                                                                   Query Match
Best Local :
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30-JAN-2001;
30-JAN-2001;
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27-SEP-2000;
04-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
                                                                                                                                      Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO
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30-JAN-2001;
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                                                                                   Local Similarity
                                3257 AGGACCTGGCCTCTGTGCTTAGTG 3280
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# 2000US-0234687P.
# 2000US-0236359P.
# 2000GB-00024263.
# 2001WO-US000661.
# 2001WO-US000662.
# 2001WO-US000664.
# 2001WO-US000665.
# 2001WO-US000665.
# 2001WO-US000665.
# 2001WO-US000666.
# 2001WO-US000666.
# 2001WO-US000668.
# 2001WO-US000668.
                                                                                                                                    BP; 4 A; 8 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
                                                                   Conservative
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2001US-0266860P
                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            describes a human genome-derived myosin-like
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                                                                                   Score 17.6;
Pred. No. 4.
                                                                    Mismatches
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                                                                    Gaps
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29-MAY-2002

(first entry)

GDMLP-1 25-mer scanning

SEQ ID NO:4 sequence

SEQ

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NO:4831.

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The present invention describes a human genome-derived myosin-like CC protein 1 (hGpMLP-1). The protein and polynucleotide sequences of hGDMLP-CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1 CC nucleic acids can be used as probes to detect, characterise and quantify CC protein variants having desired phenotypic improvements, and for CC protein variants having desired phenotypic improvements, and for CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP-1 cc used as immunogens to raise antibodies that specific biomolecule capture probes for surface-enhanced laser description ionisation, as the following the proteins, as specific biomolecule capture probes for surface-enhanced laser description ionisation, as characteristic production, and in vaccines or for replacement therapy. The colymuclectide sequences encoding hGDMLP-1 may be used for diagnosing a clisorder associated with the expession of hGDMLP-1, in particular heart and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22. The present sequence in the exemplification of the present invention. N.B. CC hGDMLP-1 sequence in the exemplification of the present invention. N.B. CC hGDMLP-1 sequence in the exemplification of the present for the printed cc specification, but was obtained in electronic format directly from WIPO cc at fig. wipo.int/pub/published_pct_sequence
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21-SEP-2000;
27-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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2001WO-US000663.

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2001WO-US000667.

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G;
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Query Match Best Local S Matches 20

20; Conservative

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Score 17.6; DB 1; Pred. No. 4.5e+02; 0; Mismatches 4

DB 1; Length 25;

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The present invention describes a human genome-derived myosin-like CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1 CC nucleic acids can be used as probes to detect, characterise and quantify CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hGDMLP-1 CC protein variants having desired phenotypic improvements, and for the varies antibodies that specifically recognise hGDMLP-1 proteins or polypeptides may be used as immunogens to raise antibodies that specifically recognise hGDMLP proteins, as standards in assays used to determine the concentration and/or amount specifically of hGDMLP proteins, as specific biomolecule capture probes for surface-enhanced laser desorption ionisation, as confident to patients having specific deficiency in hGDMLP-1 production, and in vaccines or for replacement therapy. The production, and in vaccines or for replacement therapy. The constitute sequences according hGDMLP-1 may be used for diagnosing a constitute associated with the expression of hGDMLP-1 in particular heart candidate the chromosome 22.

Disclosure;

SEQ

ID NO 12950; 214pp; English.

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30-JAN-2001;
30-JAN-2001;
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21-SEP-2000;
27-SEP-2000;
                                                                                                                                                             New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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30-JAN-2001;
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2001WO-US000668.
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2001WO-US000670.
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RESULT 311
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ID ABN133
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Matches 20; Conserv
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21-SEP-2000;
27-SEP-2000;
04-OCT-2000;
  The present invention describes a human genome-derived myosin-like protein 1 (hgDMLP-1). The protein and polynucleotide sequences of hgDMLP-1 can be used in gene therapy and vaccine production. The hgDMLP-1 nucleic acids in semples to detect, characterise and quantify hgDMLP-1 nucleic acids in samples, as amplification substrates, to provide initial substrates for the recombinant engineering of hgDMLP-1
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                                                                                                                                                                                   Disclosure;
                                                                                                                                                                                                                                New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins, or as specific biomolecule capture probes for surface-enhanced laser desorption ionization, comprises human myosin-like protein hGDMLP-1.
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Matches
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30-JAN-2001; 2001WO-US000664.
30-JAN-22001; 2001WO-US000667.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000668.
30-JAN-2001; 2001WO-US000669.
23-MAY-2001; 2001WS-00864761.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human testis expressed Patched like protein; testis; adrenal; liver; male germ cell development; bone marrow; brain; kidney; lung; placenta; prostate; skeletal muscle; colon; male infertility; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein variants having desired phenotypic improvements, and for expressing the proteins. The hdDMLP-1 proteins or polypeptides may be expressing the proteins. The hdDMLP-1 proteins or polypeptides hdDMI used as immunogens to raise antibodies that specifically recognise hdDMI -1 proteins, as standards in assays used to determine the concentration
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (AEOM-)
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Pred. No. 4.
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Novel isolated human testis expressed Patched like protein (HTPL), for identifying agonist and antagonist and specific binding partne for treating subjects having defects in HTPL.

partners,

usefulers, and

Example

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Page 341; 718pp; invention

English.

present

relates

to human

testis expressed Patched like

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RESULT 313
ABS75628
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC protein (HTPL, see ABV78759 to ABV78762 and ABB98519 to ABB98520). HTPL
CC has two isoforms, with a few single base pair differences between the
two. One of the single base pair changes introduces a premature stop
cc codon in HTPL-S (S for short) compared to HTPL-L (L for long). HTPL
capacity of the structural structure organisation with the Patched protein. The
shared structural features strongly imply that HTPL plays a role similar
cc to that of Patched, and is a potential tumour suppressor. HTPL is
important in regulating male germ cell development, and the HTPL gene was
compared to human chromosome 10pl2.1. HTPL and its coding sequence are
cuseful for diagnosing a disorder caused by mutation in HTPL, and in
therapy and manufacture of a medicament for treatment or prevention of
such disorder associated with decreased expression or activity of human
cuseful disorders include disorders of testis, or adrenal, adult and
foetal liver, bone marrow, brain, kidney, lung, placenta, prostate,
skeletal muscle or colon function. HTPL proteins and nucleic acids are
clinically useful disgnostic markers and potenial therapeutic agents for
male infertility and cancer. The present oligonucleotide was used in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 20
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                                                                                                                                                                                                                                                                                                            26-MAY-2000; 2000US-0207456P
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                                                                                                                                                                                                                                                                                                                                                                                                        US2002102252-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAPP-E; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human PAPP-Ea associated 25-mer SEQ ID 1154.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABS75628;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                             (GUYY/) GU Y.
(SHAN/) SHANNON M B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   contraceptive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        770 GCGCCCAAGCCCAGGAAGGGGCAG 793
                                                                                                                                                                                                                                 Shannon ME;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 GAGCCCAAGCCCAGGCCGGGCCG 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pregnancy associated plasma protein E; abortive;
gene therapy; vaccine; pregnancy; antenatal; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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0; Mismatches
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Pred. No. 4.
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0

This invention describes a novel isolated nucleic acid that encodes one of three new isoforms of human pregnancy associated plasma protein E, hPAPP-E. The products of the invention have abortive and contraceptive activity and can be used for gene therapy or in a vaccine. The nucleic acid, polypeptide encoded by it, or antibody to the polypeptide can be used in pharmaceutical compositions or vaccines for preventing or aborting pregnancy. PAPP-E is used in the antenatal diagnosis of

New isolated nucleic acid encoding an isoform of human pregnancy associated plasma protein E, for preventing or aborting pregnancy

pregnancy

Example

ν -:

Page

227;

353pp;

English.

acid that encodes one

Query Match
Best Local Similarity
Matches 20; Conserv

Conservative

0

Score 17.6; DB 1 Pred. No. 4.5e+02 0; Mismatches

DB 1;

Length Indels

25

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Gaps

0

0.3%;

Sequence 25

BP; 16

A; 0 C; 5 G; 4 T; 0 U; 0 Other;

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Matches
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                           This invention describes a novel isolated nucleic acid that encodes one of three new isoforms of human pregnancy associated plasma protein E, hPAPP-E. The products of the invention have abortive and contraceptive activity and can be used for gene therapy or in a vaccine. The nucleic acid, polypeptide encoded by it, or antibody to the polypeptide can be used in pharmaceutical compositions or vaccines for preventing or aborting pregnancy. PAPP-E is used in the antenatal diagnosis of dysgenetic pregnancies. The nucleic acids are used as probes to assess the level of PAPP-E isoform mRNA in chorionic villus samples, and the antibodies can be used to assess the expression levels of PAPP-E isoform proteins in chorionic villus samples, to diagnose dysgenetic pregnancies antenatally. This sequence represents an oligomer used in scanning the human PAPP-E genes described in the disclosure of the invention
                                                                                                                                                                                                                                                                                                                                                                                      Gu Y,
                                                                                                                                                                                                                                                                                                   New isolated nucleic acid encoding an isoform of human pregnancy associated plasma protein B, for preventing or aborting pregnanc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human PAPP-Ea associated 25-mer SEQ ID 1152.
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                                                                                                                                                                                                                                                                    Example 2; Page 226; 353pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-APR-2001; 2001US-00827998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dysgenetic
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contraceptive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                       (GUYY/) GU Y.
(SHAN/) SHANNON M
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 0 C; 5 G; 5 T; 0 U; 0 Other;
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Pred. No. 4.5e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pregnancy; antenatal; diagnosis;
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RESULT 315
ADB02002/c
ID ADB020
XX ADB020
XX ADB020
XX ADB020
XX Cytost
KW Cytost
KW chromc
FPI assoc
PPI manuf
PPI assoc
PPI manuf
PPI assoc
PPI manuf
PPI assoc
PPI manuf
CC WDZ4,
XX New Z
PPI manuf
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                                                                                                                                                                                                                                                                                                                  The present invention relates to novel human zinc finger-containing CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is cc encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2, CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, CC or in manufacturing a medicament for treating or preventing a disorder CC associated with decreased or increased expression or activity of MDZ3, CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic CC acids and proteins are also useful for diagnosing or monitoring a disease CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic CC acids can also be used as probes to detect and characterize gross CC useful in constructing microarrays for measuring gene expression. The CC proteins are useful as therapeutic agents for gene therapy or as CC vaccines. The present sequence was used to illustrate the invention.
                                                                                                                                Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ3, MDZ7 or MDZ12, e.g. cancer.
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                                                                                                                                                                                                                                                                 Sequence 25 BP; 7 A; 7 C; 11 G; 0 T; 0 U; 0 Other;
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                                             4154 GCTTCTCCCCCTTGGGAGTCCTCC 4177
24
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   GCTTCTCCCCGGTGTGCGTCCTCC 1
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                                                                                                                                    Conservative
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                                                                                                                                0; Mismatches
                                                                                                                                                            Score 17.6;
Pred. No. 4.
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RESULT 316 ADB02001/c

Human microarray DNA oligonucleotide SEQ ID

14-OCT-2003

(first entry)

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RESULT 317
ACK21062/c
ID ACK210
XX
AC ACK210
XX
AC ACK210
XX
DT 14-OCT
XX
DB Human
XX
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                                                                                                                                                                                                                                                                                                                                                                          proteins and their coding sequences: MDZ3, MDZ14, MDZ12. MDZ3 is cencoded at chromosome 7g22.1, MDZ4 is encoded at chromosome 5g21.3-22.2, MDZ4 is encoded at chromosome 5g21.3-22.2, MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome 12g26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy, or in manufacturing a medicament for treating or preventing a disorder cased of increased expression or activity of MDZ3, MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic acids and proteins are also useful for diagnosing or monitoring a disease caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic acids can also be used as probes to detect and characterize gross alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are useful in constructing microarrays for measuring gene expression. The proteins are useful as therapeutic agents for gene therapy or as constructions.
                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New zinc finger-containing proteins and nucleic acids, useful in manufacturing a medicament for treating or preventing a disorder associated with decreased or increased expression or activity of MDZ4, MDZ7 or MDZ12, e.g. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human MDZ3 scanning oligonucleotide SEQ ID
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                                                                                                                      ACK21062 standard;
                                                                                                                                                                                                                                                                                                                                             Sequence 25 BP; 7 A; 7 C; 11 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shannon M, Gu Y, Nguyen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUL-2002; 2002EP-00016874.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to novel human zinc finger-containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02-AUG-2001; 2001US-00922181.
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                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                       0.3%;
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                                                                                                                                                                                                                                                                                             Score 17.6;
Pred. No. 4.
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RESULT 318
ACI40802/c
ID ACI408
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AC ACI408
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DT 13-OCT
XX
DE Human
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KW EST; {
KW genet;}
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CR Also disclosed is a method of gene expression analysis. The array is used connectioning gene expression levels by hybridisation to a DNA library, cc in analysis of genetic variation or in hybridisation of tag-labelled cc compounds. The nucleic acid probes are specifically designed for analysis comprises cc hybridising at least one or more nucleic acids to at least two or more cc nucleic acid probes and detecting the hybridisation. The nucleic acid comprises and detecting the hybridisation. The nucleic acid comprises and expression levels, identifying biallelic markers or polymorphisms, cor family members of a gene and a cross-species comparison. Each of the cc nucleic acids further comprises a sequence. The array of nucleic acid cc probes is useful in in situ hybridisation, in Southern, Northern or dotted thybridisation to identify or detect the sequence or specific coulcile acid grobes in mapping the 5' termini of mRNA molecules by cf anditional subclones containing segments of DNA that have been consolated and previously sequenced. The sequence of the cc nucleic acid probes incorporated in the microarray. Note: The sequence cc data for this patent can also be obtained in electronic format directly cross the sequence of the coulcile acid probes incorporated on the microarray. Note: The sequence cc data for this patent can also be obtained in electronic format directly cross the sequence of the coulcile acid probes are sequence of sequence. The sequence cc data for this patent can also be obtained in electronic format directly cross the sequence of the councile of the coun
                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
  EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;
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                                                                           Human microarray DNA oligonucleotide SEQ ID NO 40793.
                                                                                                                                                                                                                     ACI40802 standard; DNA; 25 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                        559 TTGGAGTTCCTGAAGAAGGAGGAG 582
                                                                                                                                                                                                                                                                                                                                                                                                                                          20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 A;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9 C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 17.6;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 T; 0 U;
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CC perfect match, perfect mismatch, antisense match or antisense mismatch.

CC Also disclosed is a method of gene expression analysis. The array is used compounds. The surpression levels by hybridisation to a DNA library, commonitoring gene expression levels by hybridisation of tag-labelled compounds. The nucleic acid probes are specifically designed for analysis of at least one target sequence. The method of analysis comprises comprises and the sequence of an alysis comprises and compounds to at least two or more nucleic acids to at least two or more comprises are attached to a solid support. The analysis comprises monitoring gene expression levels, identifying biallelic markers or polymorphisms, or family members of a gene and a cross-species comparison. Each of the concloic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dotolot hybridisation to identify or detect the sequence or specific comparisons or in screening cDNA or genomic libraries or subclones containing segments of DNA that have been consolated and previously sequenced. The sequence fine conditions of any gene, in mapping the 5' termini of many molecules by correct acid probes incorporated in the microarray. Note: The sequence containing segments of DNA that have been contained in the microarray. Note: The sequence contained in the microarray of the sequence contained in also be obtained in electronic format directly from USPTO at segdata.uspto.goc/sequence.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 40793; 9pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New array of nucleic acid probes, useful for Southern, Northern or dot-blot hybridization sequence or specific mutations of any gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        es a microarray comprising a plurality of one of 2,018,500 fully defined sequences,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in situ hybridization, to identify or detect
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Sequence 25 BP; 1 A; 7 C; 5 G; 12 T; 0 U; 0 Other;

Matches Query Match Best Local : 20; Similarity Conservative 0.3%; 0; Mismatches Score 17.6; Pred. No. 4. 4.5e+02 DB 1; Length 25; 0 Сарв

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4399 AAAGACAAGAAAGATGAGACTCTG 4422

밁 ACK27097 RESULT 319 ACK27097 ACK27097 standard; DNA; 25 24 ВP

microarray DNA oligonucleotide SEQ H ĕ 127078.

14-OCT-2003

(first entry)

EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;

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RESULT 320
ACK28333/c
ID ACK283
XX ACK283
AC ACK283
XX
DT 14-OCT
XX
DE Human
XX
EST; E
KW Geneti
XW Gross-
XX
OS Homo E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                    EST; ss; probe; expressed sequence tag; microarray; gene expression; genetic variation; biallelic marker; polymorphism; human;
                                                                                                                                                                                                                                                                                   ACK28333 standard; DNA; 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for additional subclones containing segments of DNA that have been isolated and previously sequenced. The sequence presented is one of the nucleic acid probes incorporated in the microarray. Note: The sequence data for this patent can also be obtained in electronic format directly from USPTO at seqdata.uspto.goc/sequence.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention discloses a microarray comprising a plurality of nucleic acid probes including one of 2,018,500 fully defined sequences, or its perfect match, perfect mismatch, antisense match or antisense mismatch. Also disclosed is a method of gene expression analysis. The array is us
                                                                cross-species comparison
                                                                                                                                                  Human microarray DNA oligonucleotide SEQ
                                                                                                                                                                                               14-OCT-2003
                                                                                                                                                                                                                                         ACK28333;
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Pred. No. 4
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                                                                                                                                                  ID NO 128314.
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to identify or detect the
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cc acid probes including one of 2,018,500 fully defined sequences, or its perfect match, perfect mismatch, antisense match or antisense mismatch. CC Also disclosed is a method of gene expression analysis. The array is used in monitoring gene expression levels by hybridisation to a DNA library. CC in analysis of genetic variation or in hybridisation to a DNA library. CC compounds. The nucleic acid probes are specifically designed for analysis of tag-labelled cc probes are attached to a solid support. The method of analysis comprises cc hybridising at least one or more nucleic acids to at least two or more nucleic acids to a teather two as solid support. The analysis comprises monitoring gene expression levels, identifying biallelic markers or polymorphisms, cc framily members of a gene and a cross-species comparison. Each of the nucleic acids further comprises a tag sequence. The array of nucleic acid probes is useful in in situ hybridisation, in Southern, Northern or dotable hybridisations of any gene, in mapping the 5' termini of mRNA molecules by primer extensions or in screening cDNA or genomic libraries or subclones for additional subclones containing segments of DNA that have been isolated and previously sequenced. The sequence presented is one of the nucleic acid probes incorporated in the microarray. Note: The sequence cc data for this patent can also be obtained in electronic format directly from USFTO at sequence of sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New array of nucleic acid probes, useful for Southern, Northern or dot-blot hybridization sequence or specific mutations of any gene.
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identify or detect !
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Sequence 25 BP; 3 A; 9 C; 8 G; 5 T; 0 U; 0 Other;

Ś Query Match Best Local S Matches 20 Local Similarity 4547 GAGAGCAGCTGATAGCCCGAGTGA 4570 0.3%; nilarity 83.3%; Conservative 0; Score 17.6; DB 1; Pred. No. 4.5e+02; Mismatches Length 25; Indels ٥, Gaps

0

밁 ACH54326 RESULT 321 ACH54326 standard; DNA; 25 GAGAGCAGCGGCTCGCCCGACTGA 2 25

1X5XFXGXFFFXGX ACH54326; DNA target sequence #3462 useful in array for genetic analyses. 16-OCT-2003 (first entry)

Gene expression analysis; array; hybridisation; genetic variation; tag-labelled compound; gene family; in situ hybridisation; library screening; Southern hybridisation; northern hybridisation; dot-blot hybridisation; gene sequence; mutation detection; target sequence; probe; PCR; primer; ss.

Unidentified

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RESULT 322
ADK65715/c
ID ADK657
XX
ADK657
XX
AC ADK657
XX
Of-WAY
CX
XX
A thal
XX
Vitami
KW food p
XX
Food p
XX
OS Arabid
XX
DE1021
XX
PD 02-OCT
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                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to nucleic acid sequences that are complementary to particular genes, and can be used as probes for a complementary to particular genes, and can be used as probes for a comprises 9 or more consecutive nucleotides from at least one of 14936 nucleotide sequences defined in the patent, or their perfect sense match, sense mismatch, antisense match or antisense mismatch oligonucleotides. The probes may be used in an array comprising at least 10 distinct nucleic acid probes. The array is useful in monitoring gene expression levels by hybridisation to a DNA library, in analysing genetic variations, and in hybridisations to a DNA library, in analysing genetic useful for identifying family members of a gene. The probes are useful for identifying family members of a gene. The probes are also useful in in situ hybridisations, in screening cDNA or genomic libraries (or derived subclones) for additional clones containing segments of DNA that have been previously isolated and sequenced, in Southern, northern, or dot-blot hybridisation of genomic DNA to identify or detect the sequence of any gene or detect specific mutations in any gene, and in mapping the 5' termin of manh molecules by primer extensions. The nucleic acid sequences of the invention provides a large collection of nucleic acid sequences concerning the sequences of the invention. Note: The sequence data for this patent was obtained in electronic format then the target sequences of the invention. Note:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                   vitamin E; 2-methyl-6-phytylhydroquinone methyltransfase; enzyme; food processing; abiotic stress; ss; primer; PCR.
                                                                                                                                                                                                                      06-MAY-2004
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                                                                              Arabidopsis thaliana
                                                                                                                                                                           A thaliana 2-methyl-6-phytylhydroquinone methyltransfase PCR primer
                                                                                                                                                                                                                                                           ADK65715;
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                                         DE10212703-A1
                                                                                                                                                                                                                                                                                                   ADK65715 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    directly from the
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                                                                                                                                                                                                                                                                                                                                                                                                                        4293 CTCCATTCGGAAGGAACTGGAGCT 4316
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                    CTCCTTACGGAAGGAACAGGACCT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 7 C; 6 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                   DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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Pred. No. 4.5e+02,
0; Mismatches
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RESULT 323
ADO8107/c
ID ADO810
XX ADO810
XX ADO810
XX ADO810
XX Gene t
KW Giseas
KW Gystic
KW milk p
KW micros
XX Bos ta
XX DE1023
XX D9-AUC
XX O9-AUC
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to a method for preparing Vitamin E, which comprises culturing an organism that has higher 2-methyl-6-phytylhydroquinone methyl transferase activity than the wild type. The method is used to produce transgenic organisms, particularly plants that have increased Vitamin E content, useful in foods, fodder (or supplements), for food processing, for preparing Vitamin E-containing extracts, and for converting 2-methyl-6-(phytyl, solanesyl or geranylgeranyl) hydroquinones to the corresponding 2,3-dimethyl compounds. Also, the method is used for producing plants with increased Vitamin E content which have better resistance to abiotic stress. The present sequence is a PCR primer used to isolate the A. thaliana 2-methyl-6-phytyl-producing transfer to the content which have better resistance to abiotic stress.
                                                                                                                                                                                                                                                                                           disease predisposition; microsatellite marker; prion disease; cystic fibrosis; malignant hyperthermia syndrome; metabolic dimilk protein; hormone; transcription factor; pT7-blue-vector;
                                               Geldermann H,
                                                                                                               09-AUG-2002; 2002DB-01036711.
                                                                                                                                              09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                              26-FEB-2004.
                                                                                                                                                                                                              DE10236711-A1.
                                                                                                                                                                                                                                               Bos taurus.
                                                                                                                                                                                                                                                                               microsatellite; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                          gene typing, polymorphic microsatellite loci; PML;
                                                                                                                                                                                                                                                                                                                                                                            Cow prion protein microsatellite locus primer #79
                                                                                                                                                                                                                                                                                                                                                                                                            29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                             ADO81067;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADO81067 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 25 BP; 4 A; 9 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        phytylhydroquinone-methyltransferase gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Page 35; 48pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        phytylhydroquinone methyltransferase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Preparation of Vitamin E, useful e.g. in foods and animal fodder, comprises growing organisms, with increased activity of 2-methyl-6-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-MAR-2002; 2002DE-01012703
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                                                                                 UNIV HOHENHEIM.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                               Preuss S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Salchert K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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                                                 Han
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Pred. No. 4.
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WPI; 2004-215730/21

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RESULT 324
AAZ71491/c
ID AAZ714
XX AAZ714
XX AAZ714
XX Human
XX Homo @
XX Homo WO954
PN WO9954
PN GEST
XX Cohen
XX INOVel
PT Novel
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PS Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC The invention describes a method of typing (M1) a gene (I) that has one CC or more polymorphic microsatellite loci (PML). The method comprises: PCR CC amplification of at least one DNA region of (I) that includes PML, using CC as template a DNA sample containing at least one segment of (I); and CC determining the length of the resulting amplicon(s). Also described are: CC a method of determining (M2) microsatellite markers (MM) for CC predisposition to a disease, associated with a gene that includes one or CC more PML; and predisposis (M3) of diseases associated with gene that CC include PML. The method is used to identify microsatellite markers, in a CC disease related gene, that are associated with a predisposition to CC diseases and for predisposis of such diseases, especially prion diseases but also cystic fibrosis, malignant hyperthermia syndrome in pigs and CC metabolic diseases, also to type genes that encode milk proteins, CC metabolic diseases, also to type genes that encode milk proteins. This compared represents a prime than known methods based on sequencing. This
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human genome, biallelic marker, high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide nolymorphic.
                                                                                                                                                                                                                               21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human biallelic marker upstream amplification primer SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sequence represents a primer used to genotype a region of the cow prion protein (PrP) comprising a polymorphic microsatellite locus.
                                                                              Novel biallelic markers used
                                                                                                                   WPI; 2000-013267/01.
                                                                                                                                                     Cohen D,
                                                                                                                                                                                                                                                                                                                             28-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                WO9954500-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                         diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Typing genes that contain polymorphic microsatellite loci, useful for identifying predisposition to disease, by amplification and determining length of amplicons.
                                                                                                                                                                                            (GEST ) GENSET
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                                                                                                                                                     Blumenfeld M,
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                                                                                                                                                                                                                             98US-0082614P
98US-0109732P
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                                                          genome
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Page 1477;

2745pp; English

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RESULT 325
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Best Local S
Matches 18
This invention describes a novel oligonucleoside compound for hybridising to a target nucleic acid strand. The oligonucleoside comprises (a) an oligonucleoside sequence that is complementary to a target region or subregion of the target nucleic acid strand and (b) a portion that is non complementary to a target site in the target region or subregion such that, when the oligonucleoside compound is hybridised to the target strand, a base group at the site is oriented away from an inter-strand orientation. The oligonucleoside and combinations are used for inhibiting production of a selected protein in a cell by effecting cleavage at a site in a target region of cellular RNA that codes for the selected protein. They can be used for treating a condition in a mammal that is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA265654 to AA269578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AA26579 to AA27740 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not accually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                    Oligo:nucleoside compounds for cleaving RNA - having a sequence that complementary to a target nucleic acid strand and a non-complementary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cleavage; oligonucleoside; target; inter-strand orientation; inhibitor; disease; treatment; internucleotidyl bond cleavage; primer; ss.
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                                                                                                                                                                                                                                                                                                                                                                              Arnold LJ, Reynolds
                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-MAR-1994;
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                                                                                                                                                                                                                              Disclosure; Page 92; 109pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        strand RNA
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                                                                                                                                                                                                                                                                                                                                                                                    Schwartz DA,
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Pred. No. 4.
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RESULT 326
AAS97830/c
ID AAS978
XX AAS978
XX AAS978
XX AAS978
XX WITTE
DE MUTINE
XX DESIT
XX DOOR
XX POOLE
XX CAP
PR 28-AP
PR 28-
The invention relates to an isolated polypeptide, comprising a variant form of mouse or human SAC1 polypeptide. The variant form is associated with altered preference for carbohydrates, other sweeteners or ethanol. The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or alcoholism associated with SAC1 expression. The sequences are useful in screening for drugs and sweeteners. Recombinant cell lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SAC1. Predisposition to diabetes, obesity or alcoholism can be ascretained by testing any fluid or tissue of a human (such as blood, pancreas or tongue) for sequence variations of the SAC1 gene. A sequence variation of the SAC1 locus may indicate a predisposition to diabetes, obesity and/or alcoholism and may provide a diagnostic mark. The polymucleotide can be detected in a biological sample by contacting the DNA with a probe to form a hybridisation complex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 18; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 14; Page 89; 239pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel isolated polypeptide comprising variant form of mouse or human SAC1 polypeptide, and is associated with altered preference for carbohydrates or other sweeteners, useful for preventing obesity, diabetes, alcoholism.
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28-JUL-2000; 2000US-0221419P.
10-NOV-2000; 2000US-0247443P.
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                   The invention relates to an isolated polypeptide, comprising a variant form of mouse or human SAC1 polypeptide. The variant form is associated with altered preference for carbohydrates, other sweeteners or ethanol. The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or alcoholism associated with SAC1 expression. The sequences are useful in screening for drugs and sweeteners. Recombinant cell lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SAC1. Predisposition to diabetes, obesity or alcoholism can be ascertained by testing any fluid or tissue of a human (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood, pancreas or tongue) for sequence variations of the SAC1 (such as blood) for the SAC1 locus may indicate a diagnostic mark. The polynucleotide can be detected in a biological consists then detected. The sequences represent cDNA encoding human and which is then detected. The sequences represent cDNA encoding human and consists of the SAC1 polypeptides and PCR primers specific for the SCA1 genes
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Ohmen JD,
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RESULT 328
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                                                                                                                                                                           cc insulin-like growth factor binding protein. 3 (IGPBP-3) interacting cc protein, termed P4.33 protein. IGPBP-3 is used in gene therapy. Antibody cc specific for P4.33 is useful in an assay for cancer treatment, prognosis, cc or diagnosis in a patient for cancer cells that express P4.33 protein or peptides in a patient for cancer cells that express P4.33 protein or peptides in cc blood, serum, urine, lymph, saliva, tumour tissue, placental tissue, cumbilical cord tissue, amniotic fluid, chorionic villi tissue or their cc combinations, by enzyme linked immunosorbent assay (ELISA), Western cc analysis, immunoprecipitation or immunohistocytochemistry. Detecting P4.33 specific sequences in a bodily fluid sample from a patient is also cuseful in an assay for cancer treatment, prognosis, or diagnosis in a course full for cancer cells that express P4.33 sequences, by partient for cancer cells that express P4.33 immunologic assays, cc performing a sequence identity assay such as ELISA immunologic assays, cc pecific sequences. P4.33 is useful for preventing or treating cancer, cc including lung, cervical, breast, colon or prostate carcinoma in a cc patient. P4.33 functions as a receptor for IGPBP-3 and is involved in the cinduction of DNA synthesis and cellular proliferation and in the creating canter is antisense olicomuclectide.
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel insulin-like growth factor binding protein-3 interacting protein, termed P4.33 for identifying compounds having anti-cancer activity, inducing apoptosis and inhibiting cellular proliferation in cancer cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; insulin-like growth factor binding protein-3; IGFBP-3; cytostatic; lung; cervical; breast; colon; cancer; prostate carcinoma; P4.33 protein; gene therapy; cellular proliferation; receptor; apoptosis; antisense; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                               Sequence 20 BP; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to an isolated insulin-like growth factor binding protein-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 47; Page 18; 109pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYOR-) UNIV OREGON HEALTH SCI
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0.3%;
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                                                                                            13 C; 2 G; 4 T; 0 U; 0 Other;
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Pred. No. 4
Score 17.4; DB 1; Length 20; Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AR.
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RESULT 329
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XW SSCP;
XX Mypoxi
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XX US6441
XX 27-AUG
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Cracking the invention relates to a purified nucleic acid sequence (referred as Cc CACNA2D2 gene which encodes human calcium channel alpha2delta-2 subunit comprising a fully defined alpha2delta splice isoform 1, 2 or 3 cc nucleic acid sequence, or its complement and the encoded proteins. Also cc include are: (1) a method of producing a calcium channel protein which cc involves introducing a recombinant expression vector comprising the CC CACNA2D2 nucleic acids and encoding the calcium channel protein, into a cultured host cell under conditions such that the host cell expresses the camino acid sequences; and (2) a method of roc-expressing calcium channel cc proteins, comprising carrying out the method of (1), but with one or more cc encoding the splice variants. CACNA2D2 nucleic acid sequences encoding the splice variants. CACNA2D2 nucleic acid is useful for comprising one or more nucleic acid sequences compounding a calcium channel protein. The recombinantly expressed cc syndrome (LEMS) (an autoimmune disease) and for identifying compounds cascular for treating other diseases associated with abnormal calcium channel protein activity (e.g. epilepsy, migraine, spisodic ataxia, cancer, stroke, brain trauma, Alzheimer's disease, multiinfarct dementia, cc seizures, Huntington's disease, amnesia, cardiac arrhythmia, angina pectoris, hypoxic damage to the cardiovascular system, ischaemic damage cc to the cardiovascular system, ischaemic damage co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel purified nucleic acid sequence encoding human calcium channel alpha2delta subunit protein, useful for detecting, preventing and treating cancer, stroke, brain trauma, Huntington's disease, myocardial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Huntington's disease; amnesia; cardiac arrhythmia; angina pectoris; hypoxia; ischaemia; myocardial infarction; congestive heart failure; muscular dystrophy; hypertension; chromosome 3p21.3; lung cancer; breast cancer; preneoplastic lesion; hyperplasia; dysplasia; carcinoma; SSCP; single strand change polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; ss; primer; calcium channel alpha2delta; splice isoform; CACNA2D2; qene therapy; Lambert-Eaton myasthenic syndrome; LEMS; PCR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 7; Col
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             47; 77pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ą,
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RESULT 330
ACD25699
ID ACD256
XX ACD256
XX ACD256
XX Human
XX Human;
KW Human;
KW Carvin
KW Darin
KW Single
XX US2003
XX US2003
XX O6-MAN
XX Human;
KW CONGES
KW Single
XX O6-MAN
XX O6-MAN
XX US2003
XX O6-MAN
XX O6-MA
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Best Local
                                                                                                                                                                                                                                                                                                                                    (LERM/) LERMAN M I.
(LATIP F.
(WEIM/) WEI M.
(DUHF/) DUH F.
(MINN/) MINNA J D.
(SEKI/) SEKIDO Y.
(GAOB/) GAO B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; 88; PCR; calcium channel alpha2delta; chromosome 3p21.3; primer; transgenic; cancer; lung cancer; small cell carcinoma; epilepsy; stroke non-small cell carcinoma; breast cancer; nasopharyngeal cancer; cervical cancer; head and neck cancer; neurological disease; brain trauma; Alzheimer's disease; multiinfarct dementia; seizure; amyotrophic lateral sclerosis; convulsions; Huntington's disease; amyotrophic cardiovascular disease; cardiac arrhythmia; angina pectoris; hypoxic damage; ischaemia; myocardial infarction; SSCP; congestive heart failure; Lambert-Earon myasthenic syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          failure, muscular dystrophy and hypertension) CACNA2D2 nucleic acid is useful as primers and probes for detecting presence of nucleic acid sequence encoding at least a portion of calcium channel protein, in detection, identification and isolation of alpha2delta sequences diagnosing and typing of preneoplastias and cancers, since genetic disruption of 3p21.3 region (in which the alpha 2delta gene is located) is common in cancer (e.g. lung cancer and breast cancer) and preneoplastic lesion (e.g. hyperplasia, dysplasia, carcinoma in situ). The present is an SSCP (single strand change polymorphism) PCR primer used to detect polymorphisms in sequences encoding a human calcium channel alpha2delta splice isoform protein
                                                                                         New substantially pure human calcium channel alpha2delta subunit splice isoform 1, 2 and 3 sequence useful in preventing, treating and diagnosicancer, neurological disorders and cardiovascular disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-DEC-1998;
22-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human calcium channel alpha2delta SSCP primer MJE8F.
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                                                                                                                                                                                                                                                                              Lerman MI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5074 CTGGTGGCCACAGCAGCCA 5092
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                                                                                                                                                                                                                                                                              Latif P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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99US-00470443.
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94.7%;
                                                                                                                                                                                                                                                                              Wei M,
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Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                              Duh P,
                                                                                                                                                                                                                                                                              Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 20
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Page 25;

79pp; English

Novel single or multiple target oligonucleotide anti-sense to e.g.

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ADJUSTA 331
ADJUSTA ADJUSTA ADJUSTA 37/C
ID SADJUSTA AC ADJUSTA ADJUSTA AC ADJUSTA AC ADJUSTA ADJUSTA ADJUSTA ADJUSTA ADJUSTA ADJUSTA ADJUSTA ADJUSTA ADJU
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CC (single strand conformation polymorphism) primer used to detect colymorphisms in the calcium channel alpha2delta subunit gene
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            interleukin; IL-4 receptor; IL-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligonucleotide associated to ILSR-X61176 #15.
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                                                                 WPI; 2004-203534/19
                                                                                                                           Nyce JW, Tang
Shahabuddin S,
                                                                                                                                                                                                                                                                                             29-JUL-2002; 2002US-0399076P.
                                                                                                                                                                                                                                                                                                                                                              25-JUL-2003; 2003WO-US023509.
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                                                                                                                                                                                                                               (EPIG-) EPIGENESIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5074 CTGGTGGCCACAGCAGCCA 5092
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 4 A; 7 C; 6 G; 3 T; 0 U; 0 Other;
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                                                                                                                           Sandrasagra A,
H, Cong H;
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Pred. No. 4.6e+02;
Nigmatches 1;
                                                                                                                                                          Aguilar
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RESULT 332
ADJ61322/c
ID ADJ613
XX ADJ613
XX ADJ613
XX Interl
KW interl
KW interl
KW sirway
KW Cystic
KW pulmon
KW W02004
XX W05-FEB
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Best Local Similarity
Matches 18; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     initiation comments, MC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          interleukin; IL-4 receptor; IL-5 receptor; lung disease;
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                                                                             Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant gene CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                               EPIG-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1180
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                                                       e.g.,
                                                                                                                                                                                                                                                                                                                            EPIGENESIS PHARM INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGAAAGAGAGAGAGA 1198
                                                                                                                                                                                                                                         Tang
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H, Cong H;
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Pred.
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No. 4.
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NO 2178;

85pp;

The present invention relates to an oligonucleotide anti-sense t initiation codon, coding region with 2-10 nucleotides of 5'-end end of nucleic acid target comprising gene(s) chosen from e.g. interleukin (IL)-4 receptor, IL-5 receptor or salts of the

to e.

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RESULT 333
ADJ61324/c
ID ADJ613
XX ADJ613
XX ADJ613
XX Oligon
XX interl
KW interl
KW airway
KW cystic
KW pulmon
KW ss.

XX Homo s
XX Claim
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cc interleukin (IL)-4 receptor, IL-5 receptor or salts of the cliptor or provided and optionally surfactant operatively linked to the colligonucleotide and optionally surfactant operatively linked to the colligonucleotide. The method is useful for preventing or treating a crespiratory or lung disease, which involves administering to the airways compared to the anount of an inhibitor. The oligonucleotide is compared to the amount of an inhibitor. The oligonucleotide is compared to the anount of a subject an effective amount of an inhibitor. The oligonucleotide is compared to the prevention and/or treatment compared to the production of a medicament for the prevention and/or treatment compared to the airway inflammation, allergy (ies), asthma, impeded compared to the prevention. The present sequence represents an oligonucleotide of the construction. The present sequence represents an oligonucleotide of the construction.
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   interleukin; IL-4 receptor; IL-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome;
                                                                                                                                          Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g., asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oligonucleotide associated to IL5R-X61176 #16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAY-2004
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                                                                                                      Claim 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUL-2003; 2003WO-US023509
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pulmonary hypertension; lung inflammation;
                                                                                                                                                                                                                                                WPI; 2004-203534/19
                                                                                                                                                                                                                                                                                                                                                   (EPIG-) EPIGENESIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                       29-JUL-2002; 2002US-0399076P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention relates to an oligonucleotide anti-sense to
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                                                                                                      ID NO
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                                                                                                                                                                                                                                                                                    Sandrasagra
H, Cong H;
                                                                                                      2180; 85pp; English
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Pred. No. 4.6e
0; Mismatches
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5'-end and
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RESULT 334
ADJ61325/c

ID ADJ61325;

XX ADJ61325;

XX O6-MAY-2004 (first entry)
DT O6-MAY-2004 (first entry)
DT O6-MAY-2004 (first entry)
XX Oligonuclectide associated to
XX interleukin; IL-4 receptor; J
XX of sirway inflammation; allergy;
XX oystic fibrosis; acute respin
XX oystic fibrosis; acute respin
XX oystic fibrosis; acute respin
XX oystic fibrosis; lacute respin
XX oystic fibrosis; lacute respin
XX oystic fibrosis; acute respin
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XX oystic fibrosis; acute respin
XX oystic fibrosis; acute respin
XX oystic fibrosis; IL-4 receptor; lacute
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XX oystic fibrosis; lacute fibrosis
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Best Local (
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                                                    The present invention relates to an oligonucleotide anti-sense to e.g., initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-end of nucleic acid target comprising gene(s) chosen from e.g. interleukin (IL)-4 receptor, IL-5 receptor or salts of the oligonucleotide and optionally surfactant operatively linked to the oligonucleotide. The method is useful for preventing or treating a respiratory or lung disease, which involves administering to the airways of a subject an effective amount of an inhibitor. The oligonucleotide is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes (CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     interleukin; IL-4 receptor; IL-5 receptor; lung disease;
airway inflammation; allergy; asthma; impeded respiration;
cystic fibrosis; acute respiratory distress syndrome;
pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUL-2003; 2003WO-US023509
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H, Cong H;
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of a medicament

RESULT 336 ADO46712/c ID ADO467

ADO46712 standard; DNA;

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RESULT 335
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                                                                                                                                                                                                                                              The present invention relates to identifying a rice variety as amplification genetic marker and identifying whether test rice valenties of the 32 rice varieties e.g., Kasalath, breath which can Hayamasari, Italica Livorno, Dunghan Shali, Arroz Da Terra, Fany, Nihonbare. The method is useful for identifying rice variety and identifies excellent rice variety. The present sequence represent containing SSR sequence of the invention.
                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             amplifying
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HOKKAIDO GREEN BIO KENKYUSH
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CC coden, coding region, 5' or 3' intron-exon junction, intron or region CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target CC chosen from a gene encoding interleukin (IL)-4 receptor; intron or region CC 1-5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 CO PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to come or more nucleic acid target(8) or expressed product(8), for the CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CC tryptase b, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are CC useful for preventing or treating a respiratory or lung disease. The CC respiratory or lung disease is associated with hyper-responsiveness to create the respiratory or sethma and/or lung allergies associated with CC receptor(8), and/or asthma and/or lung allergies associated with CC is chosen from airway inflammatory disease. The respiratory or lung disease (CDP), chronic obstructive pulmonary disease (CDP), chronic obstructive pulmonary disease (CDP), chronic obstructive pulmonary disease of the properties of the control of the component of the control of 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to codon, coding region, 5'
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Matches 18
chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention also relates to a method of screening a candidate compound that binds to one or more nucleic acid target(s) or expressed product(s), for the prevention and/or treatment of a respiratory or lung disease. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airway inflammation; allergy; impoded respiration; cystic fibrosis; CF; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; airway obstruction; bronchoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADO46716 standard; DNA; 20
                                                                                                                                                                    The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target
                                                                                                                                                                                                                                                                                      Claim 2;
                                                                                                                                                                                                                                                                                                                                                                     Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-APR-2002; 2002WO-US013135.
23-APR-2002; 2002WO-US013143.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; II
CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a;
tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human oligonucleotide #2082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-293804/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (SAND/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JUL-2003; 2003US-00627930.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SHAH/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1183 GAAAGAGAGAGAGAAAT 1201
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) AGUILAR D.
) MILLER S.
) SHAHABUDDIN S.
) LU H.
) CONG H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SANDRASAGRA A.
TANG L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NYCE J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity 94.7
                                                                                                                                                                                                                                                                                      SEQ ID NO 2182; 174pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sandrasagra A, Ta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tang
mg H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
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0; Mismatches
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Pred. No. 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aguilar D,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Miller
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oligonucleotides are useful for reducing or inhibiting expression of a

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RESULT 338
ADO46715/c
ID ADO467
XX ALIMAN
XX Human;
XW CCR1;
XW CCR1;
XW CCR1;
XW CCR1;
XW CCR1;
XW CCR1;
XW ALIMAN

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Best Local S
Matches 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Botaxin-1; RANTES; MCP4; CD23; ICAM; CCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airhap; linflammation; allergy; impleded respiration; cystic fibrosis; CF; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory disease; pulmonary hypertension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AD046715
                                                                                                                        Nyce JW, Sandrasagra A, Tu
Shahabuddin S, Lu H, Cong
                                                                                                                                                                                                                                                                                                                                                                                                   (NYCE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-APR-2002; 2002WO-US013135.
23-APR-2002; 2002WO-US013143.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2004049022-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 0 A; 10 C; 0 G; 10 T; 0 U; 0 Other;
                                                               WPI; 2004-293804/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JUL-2003; 2003US-00627930
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                                                                                                                                                                                                                                                                                (/HAHS
                                                                                                                                                                                                                                                                                                                                          AGUI/
                                                                                                                                                                                                                                                                                                                                                                            (TANG/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation; bronchitis; airway obstruction; bronchoconstriction
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                                                                                                                                                                                                                 CONG H.
                                                                                                                                                                                                                                                                                                                                                                                                                                  NYCE J W.
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                                                                                                                                                                                                                                                                             SHAHABUDDIN S.
                                                                                                                                                                                                                                                                                                                                          AGUILAR D.
                                                                                                                                                                                                                                                                                                                                                                         TANG
                                                                                                                                                                                                                                                                                                                                                                                                      SANDRASAGRA A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAGAGAGAGAGAGA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.78;
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                                                                                                                     Tang
)ng H;
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                                                                                                                                                     Aguilar D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.6e+02;
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                                                                                                                                                        Miller S;
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initiation codon, intron of respiratory disease-relevant gene e.g. CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.
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Claim 2; SEQ ID NO 2181; 174pp; English.

The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target chosen from a gene encoding interleukin (II)-4 receptor, interleukin (II)-6.

C. tryptase a, tryptase b, PD84 A, PD84 B, PD84 C or PD84 D. The invention class relates to a method of screening a candidate compound that binds to one or more nucleic acid target(s) or expressed product(s), for the coligonucleotides are useful for reducing or inhibiting expression of a coligonucleotides are useful for reducing or inhibiting expression of a coligonucleotides are useful for reducing or inhibiting expression of a complete b, PD84 A, PD84 B, PD84 C, or PD84 D. The oligonucleotides are useful for reventing or treating a respiratory or lung disease. The cuseful for preventing or treating a respiratory or lung disease. The complete b, PD84 A, PD84 B, PD84 C, or PD84 D. The oligonucleotides are useful for preventing or treating a respiratory or lung disease. The complete b, PD84 B, PD84 C, or PD84 D. The oligonucleotides are completed by and/or asthma and/or lung allergies associated with respiratory or lung disease. The complete coligonucleotide is chosen from alleway inflammatory disease. The respiratory or lung disease coligonucleotide of the content o invention. bronchoconstriction. This sequence represents an oligonucleotide

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Sequence 20 BP; 0 A; 10 C; 0 G; 10 T; 0 U; 0 Other;

Query Match Best Local S Matches 18; 1180 AGAGAAAGAGAGAGAGAGA 1198 Similarity Conservative 0.3%; 0; Mismatches Score 17.4; Pred. No. 4. 6e+02 DB 1; Length 20 Indels 0 Сарв 0

밁 19 AGAGAGAGAGAGAGAGA 1

5

Human oligonucleotide #2079. 15-JUL-2004 (first entry) ADO46713 standard; DNA; 20 BP

RESULT 339
AD046713/C
ID AD04677
XX AD04677
XX AD04677
XX IS-JUL
XX Human
XX Human
XX Human
XX Human
XX Human
XX CCR1;
XW CCR1;
XW CCR1;
XW LTYPta
XW LTYPta
XW LTYPta
XW Iung d
XW asthma
XW Iung d
XX Iung d Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-CR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; CCAM; tryptase a; tryptase b; PDB4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airmay inflammation; allergy; inflammation; cystic fibrosis; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; 23-APR-2002; 2002WO-US013135. 23-APR-2002; 2002WO-US013143. 25-JUL-2003; 2003US-00627930. Homo sapiens. US2004049022-A1 lung inflammation; bronchitis; airway obstruction; Ç

Novel single or multiple target oligonucleotide anti-sense to e.g.

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RESULT 340
ADO46714/c
ID ADO467
XX ADO467
XX ADO467
XX T5-JUL
XX Human;
XX Human;
XW CCR1;
XW CCR1;
XW Lrypta
XW asthma
XW asthma
                                                                                                                                                                                                                                                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region codon, coding region, 5' or 3' intron-exon junction, intron or region codon, coding region, 5' or 3'-end of a nucleic acid target chosen from a gene encoding interleukin (II)-4 receptor, interleukin (II)-6 receptor, cCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to come or more nucleic acid target(s) or expressed product(s), for the CC prevention and/or treatment of a respiratory or lung disease. The CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a, CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are useful for preventing or treating a respiratory or lung disease. The CC engiratory or lung disease is associated with hyper-responsiveness to CC end/or increased levels of, adenosine and/or levels of adenosine A CC receptor(s), and/or asthma and/or lung allergies associated with a creeptor(s), chronic obstructive pulmonary disease (CCPD), chronic obstructive pulmonary disease (CCPD), chronic obstructive pulmonary disease (CCPD), chronic obstructive pulmonary of sease (CCPD), chronic obstructive pulmonary of sease (CCPD), chronic obstructive pulmonary between the first and content of the broader of the content of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                      Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease;
lung disease, ..... inflammation; inclammation; asthma; lung allergy; inflammation; allergy; impeded respiration;
                                                                                                                                                                                                                                                                                                      ADO46714 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20
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                                                                                                                                                                                Human oligonucleotide #2080
                                                                                                                                                                                                                          15-JUL-2004
                                                                                                                                                                                                                                                                  AD046714;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim
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(SAND/)
(TANG/)
(AGUI/)
(MILL/)
(SHAH/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /HHDT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18;
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CONG H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGUILAR D. MILLER S.
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SANDRASAGRA A.
                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGAAAGAGAGAGAGAGA 1198
                                                                                                                                                                                                                                                                                                                                                                                                          AGAGAGAGAGAGAGA 1
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in S, Lu H,
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ful for
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ng H;
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Pred. No. 4.6e+02;
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                                     cystic fibrosis; CF
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                                                                                                                                                                                                                The invention relates to oligonucleotides anti-sense to an initiation codon, coding region, 5' or 3' intron-exon junction, intron or region CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-6.

CC tryptase a, tryptase b, PDE4 A, PDE4 C or PDE4 D. The invention CC also relates to a method of screening a candidate compound that binds to CC one or more nucleic acid target(s) or expressed product(s), for the CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CC tryptase b, PDE4 A, PDE4 C, or PDE4 D. The oligonucleotides are cuseful for preventing or treating a respiratory or lung disease. The CC useful for preventing or treating a respiratory or lung disease. The complication of an inflammatory disease. The respiratory or lung disease. The respiratory or lung disease. The respiratory or lung disease. CC inflammation or an inflammatory disease. The respiratory or lung disease. CC is chosen from alrway inflammation, allergy, asthma, impeded respiration, cc cystic fibrosis (CC), chronic obstructive pulmonary disease (COPD), allergic rhighting, and respiratory or lung allergic rhighting. Contents respiratory of antenname contents of allergic rhighting.
                                                            Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; airway obstruction; bronchoconstriction.
                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codon, intron of respiratory disease-relevant gene e.g. CC RANTES, MCP4, useful for prophylaxis or treating respiratory disease
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                                                                                                                                                                        allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction operations. This sequence represents an oligonucleotide operations.
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23-APR-2002; 2002WO-US013143.
                                                                                                                                                           invention.
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TANG L.
AGUILAR D.
                                                                              Similarity
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LU H.
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                               AGAGAAAGAGAGAGAGAGA 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 2180; 174pp; English
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in S, Lu H, Cong
                                                                                                                           BP;
                                                               Conservative
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Pred. No. 4.
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                                                                                           1; Length 20;
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                                                                                                                                                                               of the
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RESULT

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ADM16170 standard;

DNA;

20 BP.

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ADM16170/c
ID ADM161
XX ADM161
AC AM18 mu
AC AM18
                                                                                 cc relates to a method for analysing a blomolecule in a biological sample, comprising altering SAC1 activity in the sample and measuring the activity, a method for analysing a polynucleotide in a biological sample, comprising contacting a polynucleotide in a biological sample, cc comprising contacting a polynucleotide in a biological sample with a grobe where the probe hybridises to a SAC1 polynucleotide to form a cc probe where the probe hybridises to a SAC1 polynucleotide to form a cc probe where the probe hybridises to a SAC1 polynucleotide to form a cc probe where the grobe of the hybridisation complex, a method cof identifying susceptibility to obsestly or diabetes comprising comparing the nucleotide sequence of the suspected SAC1 allele with a wild type cand the wild-type sequence identifies a sequence variation of the SAC1 nucleotide sequence, and a method of treating or preventing obesity, cd abbetes or alcoholism associated with expression of SAC1, comprising cc administering to a subject a pharmaceutical composition and a transgenic cof the invention are useful for screening drugs for inhibition or crestoration of gene function as antidiabetic, antiobesity or antialcohol consumption therapies and for identifying sweeteners and alcohols. This sequence represents a PCR primer used to amplify murine SAC1 DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to SAC1 polypeptides and the polynucleotides encoding them. The polynucleotides contain a variation associated with sensing carbohydrates, other sweeteners or ethanol. The invention also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated polynucleotides for sensing carbohydrates, other sweeteners, or ethanol, useful for screening drugs for inhibition or restoration of gene function as antidiabetic, antiobesity or antialcohol consumption
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ROSS D A.
OHMAN J D.
CHATTERJEE A.
DE JONG P J.
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BEAUCHAMP G
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De Jong
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g PJ;
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Query Match Best Local Similarity

0.3%; 94.7%;

Score 17.4; DB 1; Length 20; Pred. No. 4.6e+02;

Sequence

20

BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

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ADMIG192/G
ID ADMIG1
ADMIG192/G
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AC ADMIG1
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The invention relates to SAC1 polypeptides and the polynucleotides concoding them. The polynucleotides contain a variation associated with concoding carbohydrates, other sweeteners or ethanol. The invention also crelates to a method for analysing a biomolecule in a biological sample, comprising altering SAC1 activity in the sample and measuring the cativity, a method for analysing a polynucleotide in a biological sample, comprising contacting a polynucleotide in a biological sample, comprising contacting a polynucleotide in a biological sample, comprising contacting a polynucleotide in a biological sample, comprising complex and detecting the hybridisation complex, a method of identifying susceptibility to obssity or diabetes comprising comparing the nucleotide sequence of the suspected SAC1 allele with a wild type concleotide sequence, where the difference between the suspected allele and the wild-type sequence identifies a sequence variation of the SAC1 nucleotide sequence, and a method of treating or preventing obesity, diabetes or alcoholism associated with expression of SAC1, comprising campinisted that carries an altered SAC1 allele. The methods and compositions of the invention are useful for screening drugs for inhibition or antialcohol crestoration of gene function as antidiabetic, antiobesity or antialcohol
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 12;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BACH/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-OCT-2002; 2002US-00280183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-OCT-2002; 2002US-00280183.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2004081964-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse; SAC1; PCR; ss; diabetes; alcoholism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Murine SAC1 DNA PCR primer #419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bachmanov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (LIXX/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHAT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (/AMHO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TORD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (REBD/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (LISS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BEAU/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19 ACCAAGCTGGACCTGAGCT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DE JONG P J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OHMAN J D.
CHATTERJEE A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TORDOFF M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BACHMANOV A
BEAUCHAMP G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ROSS D A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ohman JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 462; 148pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Beauchamp GK, Li
n JD, Chatterjee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    carbohydrate; sweetener; ethanol; obesity;
antidiabetic; alcohol; anorectic; antialcoholic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
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jee A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         De Jong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ľ
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PJ;
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RESULT 343
AAQ20033/c
ID AAQ200
XX AAQ200
XX AAQ200
XX Cross-
XX deoxyr
XX deoxyr
XX azirid
XX Synthe
YT modifi
FT modifi
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                      modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                deoxyribonucleic acid; major groove; ethanoamino group; aziridinylcytosine; cross-linking group; tumour necrosis factor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ20033 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
                          WO9118997-A.
                                                                                      modified_base
                                                                                                                           modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cross-linking oligomer 214 for targetting human TNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 consumption therapies and for identifying sweeteners and alcohols. This sequence represents a PCR primer used to amplify murine SAC1 DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3124 ACCGAGCTGGACCTGAGCT 3142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                          /*tag=
/mod_ba
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                                                                                                                                                                                                                                                    /mod
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                                                             /*tag= k
/mod_base= OTHER
                                                                                                                               /mod_base=
17
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d
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                /note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag= b
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                 /note= "N4N4-ethanocytosine"
                                                                                                  mod_base=
                                                                                                                                                    *tag=
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_base=
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                                                                                                                                                                            base=
                                                                                                                                                                                                                                                                                                                                            base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                               "N-methyl-8-oxo-2'-deoxyadenine"
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                                                                                                                                         m5c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17.4; DB 1;
Pred. No. 4.6e+02;
0; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matteucci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GILE-) GILEAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAY-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21
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                       /mod_base= m5c
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RESULT 344
AAQ20034/
AAQ20034/
XX
AC AAQ20034;
XX
DT 01-APR-1992 (first entry)
XX
DE Cross-linking oligomer 215 fc
XX
deoxyribonucleic acid; major
XX
deoxyribonucleic acid; major
XX
deoxyribonucleic acid; major
XX
AZ
EX
RW
aziridinylcytosine; cross-lin
CS
Synthetic.
XX
FT
modified_base /*tag= a
FT
modified_base /*tag= a
FT
FT
modified_base 3
FT
FT
modified_base 4
FT
FT
modified_base 4
FT
FT
modified_base 4
FT
FT
modified_base 7
FT
modified_base 1
FT
modified_base 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequence is designed to target the Human tumour necrosis beginning at nucleotide 1137 and to covalently cross-link to N4N4-ethanocytosine group. See also AAQ20031-Q20038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cross-linking oligomer 215 for targetting human TNF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent infections e.g. {\rm HIV}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1992-007480/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          deoxyribonucleic acid; major groove; ethanoamino group;
aziridinylcytosine; cross-linking group; tumour necrosis factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 4; Page 25; 42pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 94.7 es 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1183 GAAAGAGAGAGAGAGAAAT 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAAGAGAGAGAGAATT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 4 A; 7 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Krawczyk S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCIE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90US-00529346.
91US-00640654.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90US-00529346.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                                                                                                                                                        note= "N-methyl-8-oxo-2',-deoxyadenine"
                                                                                                                                                                                                                                                                                                                                        /mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                            note= "N4N4-ethanocytosine"
                                                                                                                                                                                                                                                          'mod_base= OTHER
'note= "N-methyl-8-oxo-2',-deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                  base= OTHER
                                                                                                                m5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 17.4; DB 1; Length 21; Pred. No. 4.6e+02; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ç,
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it via
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RESULT 345
AAQ30384/standard; DNA; 2:
XX
AC AAQ30384;
XY
DT 25-MAR-2003 (revised)
DT 07-DEC-1992 (first entry)
XX
DE Oligomer TNF215 for formi:
XX
DE Oligomer TNF215 for formi:
XX
DE Olignancy; hepatitis; in
XX
FM malignancy; hepatitis; in
XX
FM malignancy; hepatitis; in
XX
FM modified_base
FT /mod_base
FT /mod_base
FT modified_base
7
modified_base
7
modified_base
7
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                                                                                                                                                                                                                   Query Match
Best Local S
                                                                                                                                                                                                             Matches
                                                                   Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; mallgnancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                       The sequence is designed to target the Human tumour necrosis beginning at nucleotide 1137 and to covalently cross-link to N4N4-ethanocytosine groups. See also AAQ20031-Q20038
                                                                                                                                                                                                                                                                                                                                               Matteucci MD,
                                                                                                                                                                                                                                          Sequence 21 BP; 3 A; 8 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                    Example 4; Page 25; 42pp; English
                                                                                                                                                                                                                                                                                                         New sequence-specific non-photo-activated crosslinking agents - bind to the major groove of duplex DNA and are esp. useful for treating latent
                                                                                                                                                                                                                                                                                                                                                                           25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                  25-MAY-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                             (GILE-) GILEAD
                                                                                                                                                                                          1183 GAAAGAGAGAGAGAAAT 1201
                                                                                                                                                                                21
                                                                                                                                                                                                             18;
                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                GAAAGAGAGAGAATT 3
                                                                                                                                                                                                                                                                                                  e.g. HIV.
                                                                                                                                                                                                            Conservative
                                                                                                       (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                              SCIE INC.
                                                                                                                                                                                                                                                                                                                                               Krawczyk S;
                                                                                                                                                                                                                                                                                                                                                                           90US-00529346.
91US-00640654.
                                                                                                                                                                                                                                                                                                                                                                                                  90US-00529346
                                                                                        for forming triplex with HUMTNFAA target duplex.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= j
/mod_base=
                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mod_base= m5c
17
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                                                                                                                                                                                                           Score 17.4; D
Pred. No. 4.6e
0; Mismatches
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          N4 N4
          ethanocytosine"
                                                                                                                                                                                                                           DB 1; Length
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The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV, HRR, HTV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-WAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                         08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
27-SEP-1991;
                                                                                                                                                                                                                                              New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                                                                                                                                                Claim 12; Page 70; 77pp; English.
                                                                                                                                                                                                                                                                                                                       WPI; 1992-217083/26.
                                                                                                                                                                                                                                                                                                                                                        Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-NOV-1990;
18-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-NOV-1991;
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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/mod_base= OTHER
- "OTHER= N6 r
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/mod_ba
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ethanocytosine'
                                                                                                                                                                                                                                                                  which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                         Milligan
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Sequence

21 BP; 3 A; 8 C; 0 G; 10 T; 0 U; 0 Other;

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RESULT 346
AAQ30383;
XX
AC
AAQ30383;
XX
AC
AAQ30383;
XX
DT 25-MAR-2003 (revise)
DT 07-DEC-1992 (first)
XX
OF ONLOW necrosis fact
XX
OS Oligomer TNF214 for
XX
OS Synthetic.
XX
OS Synthetic.
XX
FT modified_base 1
FT modified_base 2
FT modified_base 4
FT modified_base 4
FT modified_base 7
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
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e= "OTHER= N6 methyl-8-oxo-2'
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- "OTHER= N6 methyl-8-oxo-2'
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Pred. No. 4.6e+02;
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RESULT 347
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ID AAT865
XX AAT865
XX Phosph
XX Phosph
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Best Local Similarity
Matches 18; Conserv
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08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitits B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Phosphorothioate oligonucleotide; dimeric phosphoramidite synthon; thioester; DNA synthesis; antisense oligonucleotide; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-MAR-1998
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                                                                                   06-FEB-1996;
                                                                                                                                     06-FEB-1997;
                                                                                                                                                                                          14-AUG-1997.
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                                                                                                                                                                                                                                                                                                                                                                               misc_difference
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Krawczyk S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
                                                                                   96GB-00002326
                                                                                                                                        97WO-GB000327.
                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
1. .21
                                                                                                                                                                                                                                                                                                 /*tag= a
/note= "Phosphorothioate linkages between
nucleotides (1 and 2, 3 and 4 etc.)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 17.4; DB 1; Length 21; Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Milligan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                  alternate
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(CRUA-) CRUACHEM LTD

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RESULT 348
ANA46230
ID ANA462
XX ANA462
XX ANA462
XX Interp
KW Chromo
KW chorio
KW retina
KW rod- c
XX Unider
XX Claim
XX PCR p
CC Inter
CC Inter
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             밁
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence represents a phosphorothioate oligonuclectide which was prepared by solid phase synthesis. The method comprises adding at least one dimeric phosphoramidite synthon, optionally having a protected thioester group in its internuclectide link, during the synthesis cycle. These novel dimeric phosphoramidite synthons are used as antisense molecules for inhibition of gene expression. The method gives increased yields of the phosphorothiate oligonuclectide (since fewer cycles are needed) and facilitates separation of impurities (greater difference in size compared with use of monomeric synthons)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Interphotoreceptor matrix; IPM; proteoglycan; IPM150; IPMC; IPM200; chromosome 6q13-q15; ocular disease; retinal detachment; chorioretinal degeneration; retinal degeneration; chorioretinal degeneration; retinal degeneration; age related macular degeneration; photoreceptor degeneration; retinal pigment epithelium degeneration; mucopolysaccharidosis;
 PCR primers AAA46209-42 were used to amplify cDNA encoding an interphotoreceptor matrix (IPM) proteoglycan, designated IPM150. Two subfamilies of IPMCs, IP protein is an IPM component (IPMC). Two subfamilies of IPMCs, IP
                                                                                                              Nucleic acids encoding interphotoreceptor matrix proteoglycans useful preventing, diagnosing and treating ocular disorders such as retinal detachment and chorioretinal degeneration.
                                                                                                                                                                                                                              Hageman
                                                                                                                                                                                                                                                                                                                                                29-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA46230 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 1 A; 10 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Solid phase synthesis of phosphoro:thioate oligo:nucleotide(s) using new dimeric synthon(s) - useful as anti:sense molecules for inhibiting gene
                                                                                                                                                                                                                                                                                                           29-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                       WO200026367-A2
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                                                                                                                                                                                           2000-365616/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18;
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G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                dystrophy;
                                                                            Page 44, 183pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                Kuehn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for interphotoreceptor matrix proteoglycan IPM150 cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                           98US-00183972
                                                                                                                                                                                                                                                                                                                                              99WO-US025440.
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                                                                                                                                                                                                                                <u>₹</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              38pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cone-rod dystrophy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                          English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 4.60); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 17.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1;
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                                                                                                                                                         for
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IPM200, exist. The human IPM150 gene is located on chromosome 6q13-q15, conceptor markers CHLC.GARAIPIO and D6S284. The IPM proteins may be used to supplement a patients own production of the protein or to rectify alterations in their nucleic acids that result in expression of an inactive protein. The IPM nucleic acids may be used in this way to treat ocular diseases such as retinal detachment, chorioretinal degeneration, retinal degeneration, age related macular degeneration, photoreceptor degeneration, RPE (retinal pigment epithelium) degeneration, cone degeneration, mucopolysaccharidosis, rod-cone dystrophy. The nucleic acids and proteins may also be used to assay for other modulators of IPM proteoglycan expression and activity that may be used to treat ocular diseases. The nucleic acids and proteins may also be used to assay so the adagnostic reagents to detect the presence of IPM nucleic acids and their products in samples from patients according to standard
Sequence 21 BP; 7 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
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Matches
                                                       Query Match
                                              Local
           1349 AAAAATTCACACAGCTGCT 1367
                                     18;
                                              Similarity
AACAATTCACACAGCTGCT
                                     Conservative
                                             94.7%;
                                                       0.3%;
                                    0; Mismatches
19
                                              Score 17.4;
Pred. No. 4.
                                               4.6e+02
                                                        DB 1;
                                                       Length 21;
                                    Indels
                                     0
                                     Gaps
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RESULT 349
ADJ13110/c
ID ADJ131
XX ADJ131
XX Probe
KW Probe
KW Probe
KW Probe
KW US20(
XX US20(
XX US20(
XX OAL)
PP 27-J
XX ADJ131
XX OAL
PP 27-J
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PP A (MI)
PP 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumour suppressor; pl6; human; H69; H1618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ss; chemical modification; methylation; array; CpG island;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probe used to immobilise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CpG methylated DNA SeqID 237.
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27-JUN-2002; 2002US-00184085 14-AUG-2003 US2003152950-A1

(/BBD/) (BALO/) (GARN/) BALOG R P. MINNA J D. GARNER H R. LUEBKE K J.

27-JUN-2001; 2001US-0301370P

Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA. Garner HR, Minna JD, 2003-874843/81. Luebke ፭ Balog

Example 1; SEQ ID NO 237; 210pp; English

This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences

IPM150

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RESULT 350
ADJ13108/c
ID ADJ131
XX ADJ131
XX ADJ131
XX ADJ131
XX Probe;
XW Probe;
XW Probe;
XW US2003
XX Homo 8
XX Homo 1
XX H
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Matches
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                                                                                   This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; SEQ ID NO 235; 210pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-JUN-2002; 2002US-00184085
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tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human DNA probe used to immobilise CpG methylated DNA SeqID 235.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-JUN-2001; 2001US-0301370P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GARNER H R.
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BALOG R P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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Pred. No. 4
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RESULT 351
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                                                                  Query Match
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Matches 18
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Best Local S
Matches 18
                                                                                                                                                                                                                                               This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human DNA probe used to immobilise CpG methylated DNA SeqID 201.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADJ13074;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LUBB/)
                                                                                          Local Similarity
                2436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2436 GGATGAGAAGGGGAGAGGT 2454
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) GARNER H R.
) MINNA J D.
) LUEBKE K J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ss; chemical modification; methylation; array; CpG island;
suppressor; p16; human; H69; H1618.
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GGATGAGAAGGGGAGAGGT
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                                                                                                                                                                          BP; 3 A;
                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
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                                                                                          0.3%;
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                                                                                                                                                                          11 C; 1
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Pred. No. 4.6e+02;
                2454
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                                                                                             Score 17.4;
Pred. No. 4.
                                                                                                                                                                          G; 6 T; 0 U; 0 Other;
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                                                                       Mismatches
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RESULT 352
ADJ13109/c
ID ADJ131
XX ADJ131
XX Probe;
XX P
RESULT 353
ADJ13146/c
ID ADJ131
XX
AC ADJ131
XX
DT 20-MAY
XX
DT Human
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(MINN/) MINNA J D.
(LUEB/) LUEBKE K J.
(BALO/) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
Human DNA probe used to immobilise CpG methylated DNA SeqID 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 3 A; 13 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; ss; chemical modification; methylation; array; CpG island;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human DNA probe used to immobilise CpG methylated DNA SeqID 236.
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                                                              20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADJ13109 standard; DNA; 21
                                                                                                                            ADJ13146;
                                                                                                                                                                                      ADJ13146 standard, DNA;
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                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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                                                                                                                                                                                          21 BP
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AAQ33
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many pottential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene plf from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 4 A; 11 C; 0 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probe; ss; chemical modification; methylation; array; CpG island;
tumour. suppressor; p16; human; H69; H1618.
             WO9213102-A1
                                          Bos taurus.
                                                                    genetic mapping;
                                                                                                             Microвatellite веquence from clone AGLA248.
                                                                                                                                           25-MAR-2003
02-FEB-1993
                                                                                                                                                                                                                 AAQ33557
                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; SEQ ID NO 273; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Garner HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (MINN/) MINNA J D.
(LUEB/) LUEBKE K J.
(BALO/) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GARN/) GARNER H R.
                                                                                                                                                                                                                                                                                                               2436 GGATGAGAAGGGGAGAGGT 2454
                                                                    selection; primers; OPTIPRIM;
tic mapping; traits; amplificat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003-874843/81.
                                                                                                                                                                                                                                                                                           19
                                                                                                                                                                                                                                                                                                                                                  18;
                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                    standard;
                                                                                                                                                                                                                                                                                           GGATGAGATGGGGAGAGGT 1
                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                          (revised)
(first entry)
                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Luebke KJ,
                                                                                                                                                                                                                    22
                                                                     amplification;
                                                                                                                                                                                                                    BP
                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                Score 17.4;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Balog RP;
                                                                                     breeding;
                                                                                                                                                                                                                                                                                                                                                                 4.6e+02
                                                                       88
                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                     cattle; parentage;
                                                                                                                                                                                                                                                                                                                                                                             Length 21,
                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                     0
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RESULT 355
AAS97748
ID AAS977
XX AAS977
XX II-MAR
DT 12-MAR
XX Murine
XX Human;
KW obesit
KW obesit
KW protei
XX D1000;
KW protei
XX W02001
XX W02001
XX W02001
XX PP 25-APF
PR 28-APF
PR 28-APF
PR 28-JUI
PR 10-NOV
XX PA (WARN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequence is that of a bovine microsatellite sequence obtd. by CC screening a library of bovine Mool DNA fragments of between 250 and 500 CC bp with an (AC)15 and a (TC)15 oligonucleotide probe. One out of 50 CC clones cross-hybridised. Assuming independent distribution of microsatellites and Mool sites, the frequency of (T6)n >9 microsatellites CC in the bovine genome is estimated at >100, 000. The sequence information CC for ca. 230 such bovine microsatellites is summarised in the generate the cc specification and indexed herein (see below). The sequences upstream and CC downstream of the microsatellite sequence were used to generate the CC required PCR primers for in vitro amplification of the corresp.

CC microsatellite (using the program OPTIPRIM). The microsatellites may be CC used to identify individuals, for parentage testing, and in the genetic CC mapping of economic trait loci, or genes involved the determinism of CC breeding. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN CC field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                              Human; mouse; SAC1; carbohydrate; sweetener; ethanol; alcoholism; ss; obesity; diabetes; transgenic embryo; body tissue; body fluid; pancreas; blood; tongue; PCR primer; anorectic; antidiabetic; gene therapy;
                                                                                                                                                                                                                                                                                                                Murine SAC1 gene-specific oligonucleotide PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polymorphic bovine DNA markers - used in genetic identification, gene mapping, and selective breeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Georges M,
                                28-APR-2000; 2000US-0200794P.
28-JUL-2000; 2000US-0221419P.
10-NOV-2000; 2000US-0247443P.
                                                                                                  25-APR-2001; 2001WO-US013387.
                                                                                                                                                                   WO200183749-A2
                                                                                                                                                                                                                                  protein
                                                                                                                                                                                                                                                                                                                                                                                                               AAS97748 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1992-284684/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JAN-1991;
 (WARN ) WARNER LAMBERT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GENM-) GENMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1180
                                                                                                                                                                                                                                replacement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGAAAGAGAGAGAGAGA 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 151; 517pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGAGAGAGAGAGAGA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          маввеу JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
ilarity 94.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 11
                                                                                                                                                                                                                                                                                                                                                  (first
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                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 0 C; 10
                                                                                                                                                                                                                                therapy.
                                                                                                                                                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                               22
                                                                                                                                                                                                                                                                                                                                                                                                               BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            red. No. 4.7e+02;
Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ۳,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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glyphosate; paraquat; sulfonyl urea

Identifying polymorphic markers of herbicide resistance

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WPI; 2003-430273/40.

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Grasso L,

Nicolaides

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Sass

12-OCT-2001; 2001US-0328750P 11-OCT-2002; 2002WO-US032637.

MORPHOTEK INC

17-APR-2003 WO2003031937-A2 Polymorphic marker; herbicide resistance; herbicide susceptible plant; herbicide resistant plant; Conyza canadensis; Lolium rigidum; goosegrass;

Herbicide resistance polymorphic marker related primer #34.

09-JUL-2003 ACA89735;

(first

entry)

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RESULT 356
ACA89735
ID ACA897
XX ACA897
XX O9-JUL
XX POlymc
KW Polymc
KW Polymc
KW 191yphc
XX Synthe
XX 17-API
XX MO2003
XX 12-OC3
XX 12-OC3
XX 12-OC3
XX MPI;
YX Ident:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   screening for drugs and sweeteners. Recombinant cell lines and transgenic embryos may be used in screening for and identifying agents that induce or repress function of SAC1. Predisposition to diabetes, obesity or alcoholism can be ascertained by testing any fluid or tissue of a human (such as blood, pancreas or tongue) for sequence variations of the SAC1 gene. A sequence variation of the SAC1 locus may indicate a predisposition to diabetes, obesity and/or alcoholism and may provide a diagnostic mark. The polynucleotide can be detected in a biological sample by contacting the DNA with a probe to form a hybridisation complex which is then detected. The sequences represent cDNA encoding human and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an isolated polypeptide, comprising a variant form of mouse or human SACI polypeptide. The variant form is associated with altered preference for carbohydrates, other sweeteners or ethanol. The polypeptide and its associated DNA sequence can be produced by recombinant techniques and is useful for preventing obesity, diabetes or alcoholism associated with SACI expression. The sequences are useful in screening for drugs and sweeteners. Recombinant cell lines and transgenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated polypeptide comprising variant form of mouse or human SAC1 polypeptide, and is associated with altered preference for carbohydrates or other sweeteners, useful for preventing obesity, diabetes, alcoholism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACA89735 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 which is then detected. The sequences represent cDNA encoding human and mouse SAC1 polypeptides and PCR primers specific for the SCA1 genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 14; Page 86; 239pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (MONE-) MONELL CHEM SENSES CENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3597 TCAGGCTAATCTCAAACTC 3615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAGGCTAACCTCAAACTC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 8 A; 8 C; 2 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Beauchamp GK,
1 DR, Ross D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ᅜ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₽₽
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 17.4;
Pred. No. 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chatterjee
Tordoff MG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4.7e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   De
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ľď,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>۲</u>.
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ARBSULT 357
ADM1608
ID ADM160
XX ADM160
XX ADM160
XX ADM160
XX ADM160
XX Mouse;
XW Mouse;
XW Mouse;
XW Mouse;
XW US2004
XX US2004
XX US2004
XX US2004
XX US2004
XX US2004
XX CESO(CI
XX ADM160
PR 25-OCI
XX ADM160
PR 25-OCI
XX ADM160
PR 25-OCI
XX (BACH)
PR (BACH)
PR (BACH)
PR (CHAT)
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes a method of identifying polymorphic markers of herbicide resistance in a plant. The method involves: isolating genomic DNA from an herbicide susceptible plant and an herbicide resistant plant of the same species, performing genetic analysis and identifying the difference that correlate with herbicide resistance or susceptiblity, thus identifying polymorphic markers. The method is useful for identifying polymorphic markers. The method is useful for identifying polymorphic markers of herbicide resistance in a plant e.g. Conyza canademsis, Lolium rigidum and goosegrass species, where the herbicides include glyphosate, paraquat and sulfonyl urea moieties. This sequence represents a primer associated with the identification of polymorphic markers of herbicide
                                                                                                                                                                      Bachmanov
Ross DA,
gene function therapies.
                    New isolated polynucleotides for sensing carbohydrates, other sweeteners or ethanol, useful for screening drugs for inhibition or restoration of gene function as antidiabetic, antiobesity or antialcohol consumption
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004081964-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mouse; SAC1; PCR; ss; carbohydrate; sweetener; ethanol; obesity; diabetes; alcoholism; antidiabetic; alcohol; anorectic; antialcoholic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse; SAC1; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Murine SAC1 DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              analyzing genomic DNA of herbicide resistant and susceptible plants, and identifying difference that correlate with resistance or susceptibility.
                                                                                                                                                                                                                                                                                                                       (REED/)
(TORD/)
(ROSS/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-OCT-2002; 2002US-00280183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-OCT-2002; 2002US-00280183.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
                                                                                                                        WPI; 2004-340133/31.
                                                                                                                                                                                                                                                                                              /WHO
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                                                                                                                                                                                                                                                                                                                                                                                                                                             BEAU/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BACH/)
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                                                                                                                                                                                                                                           OHMAN J D.
CHATTERJEE A.
DE JONG P J.
                                                                                                                                                                                                                                                                                                                                         REED D R.
TORDOFF M G.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             BACHMANOV A
BEAUCHAMP G
                                                                                                                                                                                                                                                                                                                       ROSS D A.
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                                                                                                                                                                   AA, B
Ohman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                Beauchamp GK, Li
n JD, Chatterjee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PCR primer #315
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Pred. No. 4.7e+02
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0
                                                                                                                                                                      Li X,
De Jong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 1; Length 22;
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The invention relates to SAC1 polypeptides and the polynucleotides concoding them. The polynucleotides contain a variation associated with CC sensing carbohydrates, other sweeteners or ethanol. The invention also CC relates to a method for analysing a biomolecule in a biological sample, CC comprising altering SAC1 activity in the sample and measuring the CC comprising contacting a polynucleotide in a biological sample, CC comprising contacting a polynucleotide in a biological sample with a CC probe where the probe hybridises to a SAC1 polynucleotide to form a CC hybridisation complex and detecting the hybridisation complex, a method CC of identifying susceptibility to obseity or diabetes comprising comparing the nucleotide sequence of the suspected SAC1 allele with a wild type CC nucleotide sequence, where the difference between the suspected allele CC and the wild-type sequence identifies a sequence variation of the SAC1 comparing to a subject a pharmaceutical composition and a transgenic CC administering to a subject a pharmaceutical composition and a transgenic CC animal that carries an altered SAC1 allele. The methods and compositions of the invention are useful for screening drugs for inhibition or CC consumption therapies and for identifying sweeteners and alcohols. This sequence represents a PCR primer used to amplify murine SAC1 DNA of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 12;
                                                  invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 358; 148pp; English.
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Query Match
Best Local Similarity
Matches 18; Conserv
                     3597 TCAGGCTAATCTCAAACTC 3615
_
TCAGGCTAACCTCAAACTC 19
                                          Conservative
                                                     0.3%;
                                          0,
                                                     Score 17.4; DB 1;
Pred. No. 4.7e+02;
                                            Mismatches
                                                                Length
                                            Indels
                                                                  22
                                           0.
                                           Gaps
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밁 S

Sequence 22

BP; 8 A; 8 C; 2 G; 4 T; 0 U; 0 Other;

RESULT 358
AAT13515
ID AAT135
XX
AC AAT135
XX
DT 20-NOV
XX
DE Telome
XX
Human
KW Human
KW inter
KW inter
KW cance
XX
Homo
XW Cance
XX
Homo
YX
PD 24-AP
XX
PT 21-OC
PR 21-OC
PR 21-OC
PR 21-W
XX
PT Sair
PT in t GB2294322-A Telomere mapping primer (TelG) for Xp/Yp PAR1 proximal target. AAT13515 standard; telomere mapping; human chromosome; cancer identification; ss. internal repeat unit; detection; disease predisposition; abnormal; cell growth; cell division; diagnosis; family relationship; allele primer; 20-NOV-1996 AAT13515; sapiens. χp/Υp; (first entry) pseudoautosomal region; PAR1; telomere repeat array; genomic DNA; characterisation; DNA; 23 ВÞ amplification;

19-0CT-1995; 24-APR-1996 95GB-00021447

21-OCT-1994; 21-MAY-1995; 94GB-00021234. 95GB-00010639.

(ZENB) ZENECA LTD.

덫 Royle Ž, Jeffreys £

WPI; 1996-190531/20.

Characterising genomic DNA by amplifying selected internal repeat units in telomere repeat array used for, e.g. disease diagnosis, determn. of

family

relationships, telomere mapping,

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RESULT 359
ALL57030/c
ID AAL570
XX AAL570
XX AAL570
XX AAL570
XX Murine
XX Wascul
XW Vascul
XW Vascul
XW Vascul
XX WO2003
XX WO2003
XX (PLAC
XX (PLAC
XX WPI; 2
XX WPI; 2
XX Use of
PT Use of
PT Dhosph
PT manufa
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XX Exampl
XX Exampl
XX Exampl
XX Exampl
XX CC effect
CC compri
CC compri
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A sequence proximal to the human Xp/Yp pseudoautosomal region (PAR1) telomere repeat array, was produced using sequence information obtd. from 32 Caucasian and 21 African DNAs. The sequence was found to contain 20 substitution polymorphisms, and a 10 bp deletion/insertion polymorphism found only in African DNAs. Claimed type specific primers, which hybridise to loci contained in the sequence, can be used for the characterisation of a genomic DNA test sample by amplifying selected internal repeat units in a telomere repeat array. This characterisation is useful in the detection of inherited or acquired disease predisposition, abnormal cell division or growth diagnosis (e.g. cancer), individual and family relationship identification and telomere mapping of human chromosomes from DNA flanking sequences, i.e. 2 state mapping using
The present invention relates to a polypeptide comprising vascular endothelial-protein tyrosine phosphatase (VE-PTP) or its active fragment or effector, or the nucleic acid encoding the polypeptide or its effector, for use in the manufacture of an agent for monitoring or modulating VE-cadherin mediated processes or disorders. The polypeptide comprising vascular endothelial-protein tyrosine phosphatase (VE-PTP) or its active fragment or effector, or the nucleic acid encoding the
                                                                                                                                                                                                                       Use of the polypeptide comprising vascular endothelial-protein tyrosine phosphatase (VE-PTP) or the nucleic acid encoding the polypeptide for the panufacture of an agent for monitoring or modulating VE-cadherin mediated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vascular endothelial protein-tyrosine phosphatase; VE-PTP; gene therapy; cytostatic; VE-cadherin; PCR; primer; 88;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 23
                                                                                                                                                                Example;
                                                                                                                                                                                                                                                                                                                                                  Nawroth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-APR-2003; 2003WO-EP003645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2003084565-A2
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                                                                                                                                                                                                                                                                                                                                                                                          (PLAC ) MAX PLANCK GES
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                                                                                                                                                                                                                                                                                                                                                  ₽,
                                                                                                                                                              Page 17; Opp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 3 A; 16 C; 0 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                   2002EP-00007837.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      coding
                                                                                                                                                                                                                                                                                                                                                  'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
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                                                                                                                                                                                                                                                                                                                                                  Vestweber
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Pred. No. 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer
                                                                                                                                                                                                                                                                                                                                                  Shima DT,
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                                                                                                                                                                                                                                                                                                                                                Golding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23;
                                                                                                     active fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mouse;
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밁 S

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RESULT 360
AD017957/c
ID AD0179
XX AD0179
XX Primer
XX Synthe
XX Synthe
XX W02004
XX Synthe
XX Giles
XX WPI;
PR 26-JUN
XX (ORCH-
XX WPI;
PR Single
PT Single
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                                                                                             Query Match
Best Local S
Matches 18
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Best Local S
Matches 19
                                                                                                                                                                                                                                                              The present invention relates to a panel of two or more single nucleotide polymorphisms, where each of the polymorphisms of the panel are selected from single nucleotide polymorphisms that are not genetically linked with respect to one another, and where each of the polymorphisms of the panel are selected from single nucleotide polymorphisms that are located outside tandem repeat nucleic acid sequences. The known sample and the unknown sample are from the same individual. The known sample is from a family member. The compromised nucleic acid sample comprises nucleic acid fragments from 10-100 nucleotides in length. The identity of the one or more single nucleotide polymorphisms is determined using a single base primer extension reaction. The present sequence represents a primer of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e.g., cancer. The parties exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polypeptide or its effector, is useful for the manufacture of an for monitoring or modulating VE-cadherin mediated processes or die.g., cancer. The present sequence is a PCR primer shown in the
                                                                                                                                                                                                Sequence 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New panel of single nucleotide polymorphisms comprising two or more single nucleotide polymorphisms, useful for analyzing compromised nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADO17957;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-091088/09.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-JUN-2003; 2003WO-US020150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Primer of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ORCH-) ORCHID BIOSCIENCES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-JUN-2002; 2002US-0392504P.
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                                                                                                                          Local Similarity
                                                 1182
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                                                                                                  18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleotide polymorphism; primer;
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AGAAAGAGAGAGAAAAA
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                                                                                                                                                                                                BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 0 A; 0 C; 0
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                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polymorphisms,
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                                                                                                                          0.3%;
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                                                                                                                                                                                                10 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              184; 76pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24
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                                                                                                0;
                                                                                                                                                                                                G; 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 17.4; DB 1;
Pred. No. 4.7e+02;
1; Mismatches 3
                                                                                                                          Score 17.4; DB Pred. No. 4.7e+(
                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ŧ;
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                                                                                                                            4.7e+02
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                                                                                                                                                                                                     0
                                                                                                                                                                                                  Other;
                                                                                                                                              Length 24;
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                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                  Gaps
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RESULT 361
AAQ64724
                                                       Query Match
Best Local Similarity
Matches 19; Conserv
                                                                       and AAQ64724 all lacked cytotoxicity. In the molecules AAQ64709, AAQ64711 and AAQ64724 all lacked cytotoxicity. In the novel 2-5A-antisense chimeric molecules chimeric molecules, the antisense region targets the chimeric molecule to a particular region of RNA to be specifically cleaved and the 2',5'-linked tetraadenylate tail activates the 2-5A RNase. Typical applications are treatment of viral infections (esp. for cleavage of an RNA virus genome), cancer; leukaemia, cardiovascular disorders (e.g. restenosis after angioplasty), genetic disorders, osteoarthritis or rheumatoid arthritis. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                            Specific cleavage of RNA, useful partic. for treating viral infection, cancers, etc. - by using anti-sense oligo:nucleotide coupled to activator of 2-5A dependent RNase.
                                                                                                                                                                                                                                                                                                                                                                                       (USSH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                 21-OCT-1992;
17-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein synthesis regulation; phosphorylation; eIF-2alpha;
eukaryotic translation initiation factor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-2003
04-JAN-1995
                                                      Sequence
                                                                                                                                                                                                                                                   Example 9;
                                                                                                                                                                                                                                                                                                                                  WPI; 1994-151315/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-OCT-1993,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-APR-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9409129-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2',5'-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ64724;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ64724 standard; cDNA to mRNA;
                                                                                                                                                                                                                                                                                                                                                            Torrence P,
                                                                                                                                                                                                                                                                                                                                                                                    US DEPT HEALTH & HUMAN SERVICES. CLEVELAND CLINIC RES INST.
                                                       22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2',5'-tetraadenylate; 2-5A dependent RNase activator;
ge; antiviral therapy; chimeric molecule; PKR;
                                                                                                                                                                                                                                                  Page 66; 86pp;
                                                      BP;
  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tetraadenylate-anti(dT)18 oligonucleotide chimeric mol.
                                                                                                                                                                                                                                                                                                                                                            Silverman R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiviral therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                92US-00965666.
93US-00123449.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93WO-US010103
                                                       22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= a
/1abel= 2,5'-linked tetraadenylate
/label= 2,5'-linked through phosphodiester bonds
/note= "nucleotides linked through phosphodiester bonds
at hydroxyl groups of 2' and 5' carbons"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note= "the 2-5A moiety (*tag = a) and the antisense
sequence (*tag = c) are linked by two 1,4-butanediol
molecules linked through phosphodiester bonds"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                      A,
              0.3%;
                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "antisense region, complementary to oligo
                                                      C; 0
                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                                            Maitra R,
  0
 Score 17.2; DB 1; Length 22; Pred. No. 5e+02; O; Mismatches 3; Indels
                                                      G; 0 T; 0 U;
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                                                                                                                                                                                                                                                                                                                                                            Lesiak K;
                                                      0 Other;
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  Gaps
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RESULT
APP1741
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RESULT 363
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DX L1 ret
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to DNA for a promoter and an L1 cassette sequence having a core retrotransposon element. The invention is useful for random insertion of a heterologous or homologous DNA sequence into cell genome, and for correction of a genetic defect in the cell into which the insertion is made. Genetic defects which may be corrected includes cystic fibrosis, mutations in the dystrophin gene, genetic
  gene therapy; insertional mutation; germ line specific promoter;
                                                     L1 retrotransposon endonuclease cleavage site seq id 94
                                                                                                       12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22 BP; 22 A; 0 C; 0 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNAc comprising a promoter P and an L1 cassette sequence having a core retrotransposon element, useful for random insertion of a heterologous homologous DNA sequence into a cell genome and for correcting genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-060015/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-NOV-1995;
15-NOV-1996;
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                                                                                                                                                                                                             ADF12348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            defects associated with blood clotting and other genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Moran
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                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                       AAAAAAAAAAAAAAAAAAA 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAAAAAAAAAAAAAAAAAAAAAAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fig 14; 87pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      site related sequence #3
                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                       (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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96US-00749805
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   genetic defect; cystic fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                             DNA;
                                                                                                       entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17.2; DB Pred. No. 5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Length 22;
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RESULT 364
ADQ25630/c
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention describes a method of creating an insertional mutation in the germ line of an animal by introducing into an animal a nucleic acid molecule comprising a germ line specific promoter. The method is useful for generating a mutation in an offspring of an animal, or for isolating a nucleic acid from a genome of an offspring of an animal. The method may also be used to correct genetic defects in animals, especially humans. The nucleic acid is useful for generating mutations in a cell for assessing the frequency with which selected cells under go insertional mutagenesis for the generation of transgenic animals. This sequence represents an exemplary cleavage site of the endonuclease encoded by human L1 retrotransposon EN domain.
                                                                                                                                                                      Cystic fibrosis; muscular dystrophy; diabetes; gene discovery; gene mapping; molecular haplotyping; agricultural research; prostate cancer; breast cancer; lung cancer; colon cancer; ovarian cancer; human; adenorectal carcinoma; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Creating an insertional mutation in the germ line of an animal, useful for generating a mutation in an offspring of an animal, comprises introducing into an animal a nucleic acid molecule comprising a germ line specific promoter.
                                                             US2004126770-A1
                                                                                                                                                                                                                                                                                                                             Junction-specific poly(A) cDNA primer.
                                                                                                                                                                                                                                                                                                                                                                                              23-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADQ25630 standard;
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01-SEP-2000;
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                                                                                                                        Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example
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96US-00749805.
97US-00847844.
970S-00653812.
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XX ADOREC
ID 23-SEP
XX ADOREC
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XW IGF2 9
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RNA sequences. The method involves synthesising tirst strand cDNA molecules from RNA molecules, circularising the first strand and replicating the circularised first strand cDNA molecules corresponding to RNA molecules in an RNA sample, for identifying or analysing and comparing RNA molecules and or sequences expressed in deferent cells, tissues and or samples. The invention is also useful in detecting disease (e.g. cystic fibrosis, muscular dystrophy or diabetes), mutation detection, gene discovery, gene mapping (molecular haplotyping), agricultural research, and assessment of predisposition for cancers, e.g. prostate, breast, lung, colon or ovarian cancer. The present sequence is a junction-specific cDNA primer. This sequence is used to illustrate the method of invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Anorectic; Antidiabetic; Muscular; Gene Therapy; CpG island; IGF2 gene intron 3; muscle mass; fat deposition; teat number; obesity; muscle deficiency; diabetes; SNP; single nucleotide polymorphism; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 22 BP; 0 A; 0 C; 0 G; 22 T; 0 U; 0 Other;
                                                            10-JAN-2003; 2003EP-00075091.
                                                                                                                                                                                                                                                                                                                                                                                                       Sus scrofa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADQ80747 standard;
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                                                                                                                         14-JUL-2004
                                                                                                                                                                                  EP1437418-A1
                                                                                                                                                                                                                                                                                                              variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Porcine KVLQT1 intron 12 DNA sequence polymorphism oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-SEP-2004
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(ABAR/) ABARZUA P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention relates to composition and method for amplifying
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ilarity 86.4%;
Conservative
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                                                                                                                                                                                                                                                                                                 Location/Qualifiers replace(13,T)
                                                                                                                                                                                                                                           /standard_name= "Single_nucleotide_polymorphism"
                                                                                                                                                                                                                                                                              /*tag=
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Pred. No. 5e
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10-JAN-2003; 2003EP-00075091.

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AAQ30430/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to a method (M1) for selecting an animal CC for having desired genotypic or potential phenotypic properties. (M1) CC comprises testing the animal for the presence of a nucleic acid CC modification affecting; the activity of an evolutionary conserved CpG island located in intron 3 of an IGF2 gene; and/or binding of a nuclear factor to an IGF2 gene. The nuclear factor is capable of binding to a CC stretch of nucleotides which in the wild type pig mouse or human IGF2 gene is part of an evolutionary conserved CpG island, located in intron 3 of the IGF2 gene. The stretch is functionally equivalent to (ADQ80709). CC The nucleic acid modification in ADQ80709 comprises a G to A transition CC properties related to muscle mass, fat deposition, and/or teat number. CC Also claimed is a method (M2) for modulating mRNA transcription of an CC IGF2 gene by modulating the activity of an evolutionarily conserved CpG island located in intron 3 of an IGF2 gene and/or modulating binding of a nuclear factor to an IGF2 gene by modulating the activity of an evolutionarily conserved CpG island located in intron 3 of an IGF2 gene and/or modulating binding of a nuclear factor to an IGF2 gene and a method (M4) for identifying a compound capable of modulating binding of a nuclear factor to an IGF2 gene in a cell or organism. CC modulating binding of a nuclear factor to an IGF2 gene in a cell or organism. CC modulating binding of a nuclear factor to an IGF2 gene in a cell or organism. CC factor to an IGF2 gene and/or modulating of a nuclear factor to an IGF2 gene and/or modulating of a nuclear factor to an IGF2 gene and seguence of a porcine sequence tagged sites (STS) comprising a DNA sequence CC is a porcine sequence tagged sites (STS) comprising a DNA sequence
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Best Local
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07-DEC-1992
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                                                                                                                                        Human interleukin-6 gene; herpes simplex; AIDS; modified; HIV; RSV; malignancy; hepatitis; inflammation; ss.
                                                                                                    Synthetic
                                                                                                                                                                                                   Oligomer IL6803 for forming triplex with HUMIL6 target duplex.
                                                                                                                                                                                                                                                                                               AAQ30430;
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                                            modified_base
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) MELICA HB.
) GENTEC BV.
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                                                                                                                                                                                                                                       (revised)
(first entry)
                                                              Location/Qualifiers
/*tag= a
/mod_base= OTHER
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Pred. No. 5e
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RESULT 367
AAQ30431/c
ID AAQ304:
XX
AC AAQ304:

standard; DNA; 23

0

AAQ30431; AAQ30431

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The synthetic oligomer is capable of forming a triplex at physiological cp with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human interleukin 6 gene untranslated sequence contg. a purine rich sequence condd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV, HER, HIV, hepatitis B, herpes, malignant cumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to formed from an o-xyloso dimer synthon. The linking gp. is o-xyloso concelectides have the 3'positions of xylose sugars linked via the o-cxyloso-concern the dimer synthon. This additional modifications may render the coligomer stable to nuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also AAQ25452-25501 and AAQA25448 ("Material") and official to may apple to make the synthomatical of the stable to inhibit the coligomer stable to muclease activity. The oligomer is able to inhibit the coligomer stable to make the coligomer is able to inhibit the coligomer stable to make the coligomer is able to inhibit the coligomer stable to make the coligomer is able to inhibit the coligomer is able to inhibit the coligomer is a synthomatical coligomer is able to inhibit the coligomer is a synthomatical coligomer is able to inhibit the coligomer is able 
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Best Local Similarity
Matches 19; Conserv
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17-APR-1991;
27-SEP-1991;
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                                                                                                                                                                       Sequence 23 BP; 2 A; 0 C; 0 G; 21 T; 0 U; 0 Other;
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18-JAN-1991;
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                         5395 AAAAATACAAAAAAGAAAAAT 5416
22
                                                                                    Conservative
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91US-00686546.
91US-00686547.
91US-00766733.
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91US-00643382.
91US-00683420.
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/note= "OTHER= N6 methyl-8-oxo 2′ deoxyadenine"
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/note= "o-xyloso dimer synthon linkage"
12. .23
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                                                                                  0; Mismatches
                                                                                                         Score 17.2; DB Pred. No. 5e+02;
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                                                                                                                                                                                                                       to correct PN field.)
                                                                                                                             1; Length 23;
                                                                                      Indels
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The synthetic oligomer is capable of forming a triplex at physiological CC pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human cC interleukin 6 gene untranslated sequence contg. a purine rich sequence cc concd. on one strand of the duplex. The oligomer, and others like it are CC useful in diagnosis and therapy of diseases characterised by specific DNA CC duplex targets, e.g. HPV, HER, HIV, hepatitis B, herpes, malignant cC thus assays may be carried out without subjecting the test specimen to CC thus assays may be carried out without subjecting the test specimen to CC thus assays may be carried out without subjecting the test specimen to CC concel from an o-xyloso dimer scontains an inverted polarity region CC (nucleotides have the 3 positions of xylose sugars linked via the o-CC (xylene ring). Two nucleotides are coupled through a xylene residue to oligomer stable to nuclease activity. The oligomer is able to inhibit CC gene expression, as verified by in vitro systems. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
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18-JAN-1991;
08-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 12; Page 71; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New oligomers contg. modified bases -doublet in a DNA duplex, for treating herpes malignancy and inflammation.
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17-APR-1991
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(first entry)
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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/label= inverted_polarity_region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             '*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 base= OTHER
= "OTHER= N6 methyl-8-oxo 2' deoxyadenine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        _base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "OTHER=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matteucci MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       comments"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N4 N4 ethanocytosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Milligan
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Sequence 23

BP; 1

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21

T; 0 U; 0 Other;

RESULT 369 AAF16627/c

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RESULT 368
ABL56769
ID ABL567
XX ABL567
XX ABL567
XX Seque:
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XX Nuc
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                                                                                                                                         Query Match
Best Local Similarity
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Best Local Similarity
Matches 19; Conserv
                                                                                                                 Matches
                                                                                                                                                                                                                                                                            The specification describes a process for circularizing an oligonuclectide around a double-stranded nucleic acid that contains a target sequence. The method is used to detect or label nucleic acids, particularly plasmids, to detect target sequences in the nucleic acid, and to distinguish between two sequences that differ in only 1 or 2 mutations. It can be used to select, e.g. from degenerate single-stranded nucleic acids, sequences that can bind to the nucleic acid, particularly sequences that promote entry of the nucleic acid into cells or can target the nucleic acid to specific cellular compartments. The method can also be used to purify nucleic acids, particularly plasmids, and in gene therapy for specific inhibition of a gene contained in the nucleic acid. The present sequence represents an oligonucleotide used in the course of the invention, during construction of a triple helix
                                                                                                                                                                                                                            Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Circularizing oligonucleotide around double-stranded nucleic acid, useful e.g. for detecting mutations, using target-binding oligonucleotide with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid detection; nucleic acid labelling; gene therapy; nucleic acid purification; triple helix; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABL56769;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   complementary end sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Escude C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-JUN-2000; 2000WO-FR001655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-DEC-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence of an oligonucleotide used for triple helix constrution
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-AUG-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (INRM ) INSERM INST NAT SANTE & RECH MEDICALE. (CNRS ) CNRS CENT NAT RECH SCI.
                                                     2560 GATGAGGGGAGAGAGAGATGG 2581
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23
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                                                                                                                 Conservative
                                                                                                                                                                                                                            BP; 11 A; 0 C; 12 G; 0 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 40; 91pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first
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                                                                                                                                         Score 17.2; DB 1; Length Pred. No. 5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 17.2; DB Pred. No. 5e+02;
                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                               0 U; 0 Other;
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                                                                                                                 Indels
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                                                                                                                                                                         23;
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                                                                                                                 Gaps
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RESULT 370
ABLO1773
ID ABLO17
XX ABLO17
AC ABLO17
XX IS-MAR
XX Human
XX Human;
KW Human;
KW Human;
KW Horedi
XX Homo 6
XX US2001
XX
PD US2001
XX
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 23 BP; 1 A; 0 C; 0 G; 22 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention provides oligonuclectides, and methods for their use, which are useful in modulating the action of proteins involved in gastric acid production. The target protein is preferably the histamine H2 receptor or one of the proteins which form part of the gastric proton pump. The sequences and methods of the invention are useful in the treatment of gastric reflux, gastritis, dyspepsia, stomach ulcers, duodenal ulcers and other gastric acid disturbances, most of which are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gastric acid disturbance; gastric reflux; gastritis; dyspepsia; stomach ulcer; duodenal ulcer; Helicobacter pylori; antisense; DNA-RNA hybrid; ss.
                                                                                             Human; MLH1; MSH2; hMLH1; hMSH2; variant gene; diagnosis; HNPCC; hereditary non-polyposis colorectal cancer; ds.
                                                                                                                                         Human MSH2
                                                                                                                                                                    18-MAR-2002
                                                                                                                                                                                                ABL01773;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 3; Page 152; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       production or secretion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Treating gastric acid disturbance by administering an oligonucleotide which modulates the activity of a polypeptide involved in gastric acid
               22-NOV-2001
                                         US2001044936-A1
                                                                   Homo sapiens
                                                                                                                                                                                                                        ABL01773 standard; DNA; 23 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                  caused by Helicobacter pylori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-025093/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tachas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               24-MAY-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gastric acid production inhibiting oligonucleotide SEQ ID NO: 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                 Local Similarity
les 19; Conserv
                                                                                                                                                                                                                                                                                                             5395 AAAAATACAAAAAAGAAAAAAT 5416
                                                                                                                                                                                                                                                                                            23
                                                                                                                                                                                                                                                                                            (hMSH2) intronic sequence SEQ ID NO:126.
                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                 <u>,</u>
                                                                                                                                                                                                                                                                                                                                                Score 17.2; DB:
Pred. No. 5e+02;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length
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RESULT 371
AAL57112/c
ID AAL571
XX
AC AAL571
XX
DT 17-SEE
XX
Human
XX
Human
XX
Homo |
XX
W 88.
XX
OS Homo |
XX
PM W0200:
XX
PM W200:
XX
PM 15-N0
XX
PP 15-N0
XX
PA (UYUR

15-NOV-2002; 2002WO-IT000729

16-NOV-2001; 2001IT-TO001077

(UYUR-) UNIV URBINO

22-MAY-2003 WO2003042409-A2 Homo sapiens Human epithelial caderine PCR primer 2 (from primer pair A).

17-SEP-2003 AAL57112

(first entry)

AAL57112 standard; DNA; 23

BP

Human epithelial caderine; E caderine; gastric carcinoma; PCR; primer;

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ТАЛАЛАЛАЛАЛАЛАЛАЛАЛАЛА 23

5392 TAAAAAAATACAAAAAAGAAAA 5413

Query Match Best Local S Matches 19

1 Similarity
19; Conserv

Conservative

0; Mismatches Score 17.2; DB : Pred. No. 5e+02;

0.3%;

DB 1; Length 23; Indels

0

Gaps

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The present invention describes a variant human MLH1 or MSH2 gene. Also Cd described are: (1) a method for diagnosing or predicting susceptibility CC to hereditary non-polyposis colorectal cancer (HNPCC), comprising CC screening a DNA sample for the variant MLH1 or MSH2 gene where presence of the variant indicates presence of, or susceptibility to HNPCC; (2) a CC method of identifying mutants in splice donor or acceptor sites of a CC method of identifying mutants in splice donor or acceptor sites of a CC method of identifying mutants; of the human MLH1 gene and analysing the gequence to identify any mutants; (3) a method of identifying mutants in Splice donor or acceptor sites of sequencing splice donor or acceptor sites of the gene with intronic CC splice donor or acceptor sites of a human MSH2 gene, comprising CC sequencing splice donor or acceptor sites of the gene with intronic CC primers for the human MSH2 gene and analysing the sequence to identify CC any mutants; and (4) a transgenic model system for colorectal cancer CC comprising cells expressing the variant MLH1 or MSH2 gene. The hMLH1 and CC susceptibility to hereditary non-polyposis colorectal cancer. ABL01745 and ABL01745 to ABL01831 represent hMLH1 and hMSH2 gene
CC fragments from the present invention. ABL01832 to ABL01839 represent invention.
Sequence 23 BP; 21 A; 0 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 4; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New variants of the human MLH1 and MSH2 genes for diagnosing or determining a predisposition for hereditary non-polyposis colorectal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Robbins D, Lin-Goerke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ROBB/) ROBBINS D.
(LING/) LIN-GOBRKE J L.
(LING/) LING J C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-OCT-1998;
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RESULT 372
AAT33605/c
ID AAT336
XX AAT336
XX AAT336
XX Murine
XX Murine
XX Murine
XX Murine
XX Murine
XX Liver
XX Voollag
XX Inver
XX Inver
XX Synthe
XX Synthe
XX Synthe
XX Synthe
XX Ecohn'
XX MO9626
XX OC-SEP
XX WO9526
XX Fibrok
XX Fib
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention relates to a novel method for the diagnosis of greater susceptibility to gastric carcinoma, comprising searching for a possible polymorphism in the promoter of the epithelial caderine (E-caderine) gene. The method is useful for identifying a genetic polymorphism that leads to a greater predisposition to the onset of gastric carcinoma. The method is relatively simple, quick, accurate and reliable. The present sequence is that of E-caderine PCR primer 2 (from primer pair A) used during a method to identify the genotype of an individual for a C to A polymorphism at nucleotide -160 of the E-caderine gene and claimed in claim 11 of the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lymphokine; héparin binding growth factor; proliferation; primer; collagen synthesis; hyaluronan synthesis; chemoattractant; amplify; wound healing; antibody fibrosis; angiogenesis; inflammation; PCR; liver cirrhosis; primary biliary cirrhosis; glomerulnephritis; renal failure; adult respiratory distress syndrome; cystic fibrosis; asthma; emphysema; pulmonary fibrosis; gastrointestinal fibrosis; Crohn's disease; ulcerative collitis; intestinal occlusion; fibrotic cancer; optic fibrosis; dermal fibrosis; scleroderma; marrow fibrosis; joint fibrosis; vascular fibrosis; ss.
                                                       Fibroblast stimulating pathological scarring of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                  28-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9626954-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Murine; human; fibroblast stimulating factor; FsF-1; fibrosin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Murine fibrosin 2B3 domain derived primer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT33605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying greater susceptibility to gastric carcinoma by searching polymorphisms in the promoter of the \mathtt{E}\text{-}\mathrm{caderine} gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Magnani M,
                                                                                                                                                                                                                                                              (NEWE-) NEW ENGLAND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGCAGCTGCTGCTGCAGCCAC 2662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 12; 17pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 6 A; 7 C; 8 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                           MEDICAL CENT HOSPITALS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
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                                                          g factor-1 caused by
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Pred.
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                                                          polypeptide - used in treatment inflammation and for suppression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e 17.2; bb
no 5e+02;
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                                                          suppression
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The sequences given in AAT33602-06 are a probe and primers which were used in the isolation of full length cDNA's encoding murine and human CC fibroblast stimulating factor (FsF)-1, also known as fibrosin. Fibrosin CC is a lymphokine which is a heparin binding growth factor. It stimulates CC chemoattractant for fibroblasts. The 2B3 domain exhibits comparable activity to full length fibrosin in a cellular proliferation assay. CC Fibrosin may be used in therapeutic compositions to stimulate wound CC healing. Antibodies against fibrosin may be used for suppressing CC fibrosis, the chemotactic movement of fibroblast, angiogenesis and CC diagnosed as having a disease selected from liver cirrhosis, prim. CC bilary cirrhosis, glomerulnephritis, renal failure, adult respiratory CC distress syndrome, cystic fibrosis, asthma, emphysema, pulmonary CC fibrosis, gastrointestinal fibrosis, Crohn's disease, ulcerative colitis, intestinal occlusion, a fibrotic cancer, optic fibrosis, dermal fibrosis, fibrosis, dermal fibrosis,
Sequence
                                                                                                  scleroderma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Page
     24
     BP; 2 A; 11 C; 2 G; 9 T; 0 U; 0 Other;
                                                                                             marrow fibrosis, joint fibrosis, and vascular fibrosis
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밁 S Matches Query Match Best Local 9 568 22 19; Similarity CTGAAGAAGGAGGAGCTGAAGG 589 CTGAGGAAGGAACTAAAGG 1 Conservative 0.3%; 0; Mismatches Score 17.2; DB Pred. No. 5e+02; ŗ ω --Length Indels 0 Gaps

0

RESULT 373
AAT61390/c
ID AAT613
XX AAT613
XX AAT613
XX Murine
XX Murine
XX Murine
XX Murine
XX Murine
XX AAT616
XX AAT613
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XX AAT616
XX Murine
XX AAT616
XX A AAT61390 Murine fibrosin 2B3 domain derived primer, 23-APR-1997 standard; cDNA; (first entry) 24

lymphokine, heparin binding growth factor; proliferation; collagen synthesis; hyaluronan synthesis; chemoattractant; wound healing; antibody fibrosis; angiogenesis; inflammation; hepatic fibrosis; schistosomiasis; sarcoidosis; scleroderma; sclerosing cholangitis; Synthetic Murine; human; fibroblast stimulating factor; FSF-1; fibrosin; rheumatoid arthritis; ulmonary fibrosis; intestinal pneumonitis; 88.

WO9626953-A1

06-SEP-1996

28-FEB-1996; 96WO-US002726.

28-FEB-1995; 95US-00395674.

(NEWE-) NEW ENGLAND MEDICAL CENT HOSPITALS

WPI; 1996-412734/41. Wyler DJ, Prakash S, zhang X;

Pibroblast stimulating factor (PsF)-1 polypeptide - used in the detection of propensity for pathological fibrosis, esp. resulting from sarcoidosis, scleroderma, rheumatoid arthritis etc.

Example; Page 53; 144pp; English.

The sequences given in AAT61387-91 are a probe and primers which were used in the isolation of full length cDNA's encoding murine and human fibroblast stimulating factor (FsF)-1, also known as fibrosin. Fibros:

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ARASSULT 374
AAA446/c
ID AAA4482
XX AA4482
AC AAA482
XX 21-SEP
DE Heart
XX Heart
XX PCR pr
OS Homo s
XX WO2001
XX UMezaw
PI UMezaw
PI Yamada
XX WPI; 2
XX WPI; 2
XX Calls
PT Cells

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Matches
  Query Match
Best Local Similarity
Matches 19; Conserv
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Best Local :
                                                                                                                                                The present invention provides cells originating in the human bone marrow or umbilical blood cells which are capable of differentiating into cardiomyocyces. These cells are useful in the treatment of diseases involving heart muscle degeneration, such as myocardial infarction, and the study of cardiomyocyte differentiation. The present sequence is a PCR primer described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is a lymphokine which is a heparin binding growth factor. It stimulates fibroblast proliferation, collagen and hyaluronan synthesis and acts as a chemoattractant for fibroblasts. The 283 domain exhibits comparable activity to full length fibrosin in a cellular proliferation assay. Fibrosin may be used in therapeutic compositions to stimulate wound healing. Antibodies against fibrosin may be used for identifying individuals with a propensity for pathological fibrosis, esp. hepatic fibrosis. This method may be used on patients who are thought to be suffering from schistosomiasis, or where the pathological fibrosis results from sarcoidosis, scleroderma, sclerosing cholangitis, rheumatoid arthritis, pulmonary fibrosis or intestinal pneumonitis
                                                                                                                                                                                                                                                                                                                                                                                  Cells capable of differentiating into cardiomyocytes and originating bone marrow or umbilical blood cells for study of cardiomyocyte differentiation and treatment of heart disease.
                                                                                                     Sequence 24
                                                                                                                                                                                                                                                                                                                                       Example
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02-NOV-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yamada
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                                                                                                                                                                                                                                                                                                                                 Page 156; 183pp; Japanese.
     Conservative
                                                                                                     BP;
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2000WO-JP007741.
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                                                                                                     C; 4 G;
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  Score 17.2; DB 1;
Pred. No. 5e+02;
0; Mismatches 3;
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                                                                                                     10 T; 0 U; 0 Other;
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RESULT 375
AAH49612/C
ID AAH496
XX AAH496
XX AAH496
XX ADETA
AC AAH496
XX Deta-8
XX Deta-8
XX PCR PX
XX DONE m
XX SYNTHE
XX WO2001
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RESULT 376
AAH44377/C
ID AAH443
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AC AAH443
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AC AAH443
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Beta-B
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to cells isolated from bone marrow, which are capable of at least differentiating into heart muscle cells. The cells are applicable as remedies for various heart diseases particularly with damaged heart muscle accompanying degeneration. The present sequence is a PCR primer, which was used to illustrate the present invention
                      Differentiation; heart muscle cell; cytokine; transcription factor; proliferation; surface antigen; heart disease; cardiomyocyte; bone marrow; umbilical blood cell; heart muscle degeneration; myocardial infarction; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New adult bone marrow-originated cells capable of differentiating into heart muscle cells, applicable as remedies for various heart diseases particularly with damaged heart muscle accompanying degeneration.
                                                                                                                                                           Beta-skeletal
                                                                                                                                                                                                             26-SEP-2001
                                                                                                                                                                                                                                                                     AAH44377;
                                                                                                                                                                                                                                                                                                                       AAH44377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               beta-skeletal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-DEC-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bone marrow;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (KYOW ) KYOWA HAKKO KOGYO KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer;
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19; Conserv
                                                                                                                                                                                                                                                                                                                       standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAGAGAGAGAGACATCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAGAGAGAGAGAAATCAGAG 1206
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hata J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          angiogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      heart
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                                                                                                                                                           actin
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                                                                                                                                                                                                                                                                                                                       DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                        PCR primer SEQ ID NO:43.
                                                                                                                                                                                                                entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fukuda K,
                                                                                                                                                                                                                                                                                                                       24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cardiant; cell differentiating agent;
cell; heart disease; beta-skeletal actin;
                                                                                                                                                                                                                                                                                                                       ₽P
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RESULT 377
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC cardiomyocytes. Also described are: (1) cardiomyocytes produced by the CC differentiation of the cells; (2) a method for carrying out the CC differentiation into cardiomyocytes, regulated by a promotional and/or CC inhibitory factor; (3) a method for the differentiation of the cells into CC formation of heart muscle and regeneration of heart tissue which contain the cells; (5) a method for the production of heart tissue which contain CC the cells; (5) a method for the production of antibodies which recognise CC cells; (6) a method for screening factors which promote the proliferation CC telomerase in them; (8) drug compositions for the treatment of heart CC disease which contain the immortalising the cells by expressing CC telomerase in them; (8) drug compositions for the treatment of heart CC differentiation into cardiomyocytes. The cells are used in the treatment CC differentiation into cardiomyocytes. The cells are used in the treatment CC diseases involving heart muscle degeneration, such as myocardial CC infarction and in the study of cardiomyocyte differentiation. AAH44351 to AAH44409 and AAH99915 to AAH99935 represent sequences used in the
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Matches
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Best Local
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Yamada Y;
                                                                                                                      Human; peroxidase 9.90; enzyme; cancer; anti-HIV; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes cells originating in bone marrow or umbilical blood cells which are capable of differentiating into cardiomyocytes. Also described are: (1) cardiomyocytes produced by the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cells capable of differentiating into cardiomyocytes and originating bone marrow or umbilical blood cells for study of cardiomyocyte differentiation and treatment of heart disease.
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Synthetic.
                                                                Homo sapiens
                                                                                                                                                                                                                Human peroxidase 9.90 PCR primer #2.
                                                                                                                                                                                                                                                                                    24-APR-2003
                                                                                                                                                                                                                                                                                                                                                 ABZ25248;
                                                                                                                                                                                                                                                                                                                                                                                                           ABZ25248 standard; DNA; 24 BP
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                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        No.
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                                                                                                                                                          HIV infection; cytostatic;
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RESULT 378
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                            Мао У,
                                                                                                                             Human sodium pump subunit 12 of sodium pump and encoded polynucleotide used in diagnosis and treatment of malignant tumors, hemopathy, human immunodeficiency virus infection, immunological diseases and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to human peroxidase 9.90 (see ABP59112) The peroxidase is useful for treating diseases such as cancer and HIV infection. The present sequence is a PCR primer, which was used in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antiinflammatory; haemostatic; gene
human immunodeficiency virus; HIV;
inflammatory disorder; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; sodium pump; subunit 12; cytostatic; virucide; immunomodulator; antiinflammatory; haemostatic; gene therapy; cancer; haemopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human sodium pump subunit 12 PCR primer 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABA01048 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-MAR-2001; 2001WO-CN000422.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-733654/80
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                                                                                                                                                                                                                                                                                                                                                      SHANGHAI BIOWINDOW GENE
                                                                                                                                                                                                                                                                                                 Xie Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Page 16 (Disclosure); 31pp; Chinese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CO LTD SHANGHAI.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 17.2; DB 1; Pred. No. 5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                      DEV INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       infection; immunological disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ω
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Example 2; Page 16; 35pp; Chinese.

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an isolated

polypeptide

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human

godium pump

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RESULT 379
ABN86902/c
ID ABN869
XX ABN869
XX ABN869
XX Human
XX Human;
KW PCR pr
XX Homo s
XX Homo s
XX I6-JAN
XX 16-JAN
XX 16-JAN
XX 180DE-
XX WPI;
ZX New po
PT for tr
XX New po
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XX Exampl
XX Exampl
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XX Sequen
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Best Local S
Matches 19
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    subunit 12 comprising a 110 residue amino acid sequence, fully defined in the specification, or its fragment, analogue or derivative. The polypeptide is used in the diagnosis and treatment of malignant tumours, haemopathy, human immunodeficiency virus (HIV) infection, immunological diseases and various inflammatory disorders. The present sequence is a primer used to isolate a polynucleotide encoding the polypeptide of the
                                                                                                                                                                                        The present invention describes human macroprotein 21.78 (I). Also described is a process for preparing (I) using DNA recombination techniques. (I) and the polynucleotide sequence encoding it (II) can used in the treatment of diseases such as embryo development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 24 BP; 0 A; 0 C; 4 G; 20 T; 0 U; 0 Other;
                                                                                                                            Sequence 24 BP; 0 A; 1 C; 2 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                            Example 2; Page 19 (Disclosure); 35pp; Chinese.
                                                                                                                                                                                                                                                                                                          New polypeptide-human macroprotein 21.78 and polynucleotide encoding it, for treating diseases such as embryo development teratogenesis and tumor.
                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-292882/34.
                                                                                                                                                                                                                                                                                                                                                                                            Mao Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-JUN-2000; 2000CN-00116981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-JUN-2000; 2000CN-00116981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-JAN-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CN1331245-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; macroprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human macroprotein 21.78 PCR primer 2 SEQ ID NO:4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABN86902;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABN86902 standard; DNA; 24 BP.
                                                                                                                                                             teratogenesis and for (I), which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
                                                                                                                                                                                                                                                                                                                                                                                                                           (BODE-) BODE GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5393 AAAAAAATACAAAAAAGAAAAA 5414
                             5393 AAAAAATACAAAAAGAAAA 5414
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22
                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                            Xie Y;
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AAAAAAAACAAAAAA 1
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milarity 86.4%;
Conservative
                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                           tumours. The present sequence represents a PCR used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                             DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21.78; embryo development teratogenesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                           0.3%;
                                                             0
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                                                                           Score 17.2; DB
Pred. No. 5e+02;
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                                                               Mismatches
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                                                                                            DB 1; Length 24;
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                                                               Indels
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                                                             Gaps
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RESULT 380 ABQ09325/c

27-AUG-2001; 2001WO-US026519.

28-FEB-2002

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ABQ02710/c
ID ABQ027
XX
AC ABQ027
XX
DT 11-JUN
XX
Oligon
XX
Oligon
XX
Oligon
XX
Oligon
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PN W02002
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PP 28-FEE
XX
PF 27-AU(
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                                                                                                                                                                                                                                                RESULT 381
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Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an oligonucleotide array (I) comprising at least 25 different addresses (adapter sequences) with each comprising a different capture probe selected from a group consisting of the sequences given in ABQ00010-ABQ13409. (I) is useful for immobilising a target nucleic acid sequence by attaching a adapter nucleic acid (ABQ00010-ABQ13409) to a target nucleic acid to form a modified target nucleic acid and contacting the modified target nucleic acid with (I). The steps of above method is useful for detecting a target nucleic acid, which further comprises detecting the presence of the modified target nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI;
                                                                                                                                     Oligonucleotide adapter/capture probe 2701.
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 24 BP; 6 A; 9 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Array comprising adapter sequences useful for immobilizing or de target nucleic acid sequence, has different addresses comprising different specific capture probes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Oligonucleotide array; adapter sequence; probe; ss.
                                                      WO200216649-A2.
                                                                                Synthetic
                                                                                                           Oligonucleotide array; adapter sequence; probe;
                                                                                                                                                                11-JUN-2002
                                                                                                                                                                                           ABQ02710
                                                                                                                                                                                                                      ABQ02710 standard; DNA; 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 204; 261pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gunderson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    25-AUG-2000; 2000US-0227948P.
29-AUG-2000; 2000US-0228854P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oligonucleotide adapter/capture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-JUN-2002
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                                                                                                                                                                                                                                                                                                                   4371
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                                                                                                                                                                                                                                                                                         23
                                                                                                                                                                                                                                                                                           CTTGGGATCAGGACTCAGGTTG
                                                                                                                                                                                                                                                                                                               CTTGGGATCAGGGATCAGGCTG 4392
                                                                                                                                                                                                                                                                                                                                             0.3%;
nilarity 86.4%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                entry)
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                                                                                                                                                                                                                      BP
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                                                                                                                                                                                                                                                                                                                                                Mismatches
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RESULT 382
ABQ0936
ID ABQ093
XX ABQ093
XX Oligon
XX AFEE
PM 27-AUC
XX 25-AUC
PM 25-AUC
PM 25-AUC
PM 25-AUC
PM 27-AUC
XX Oligon
XX Oligon
XX Oligon
XX Oligon
XX Oligon
XX Claim
XX Claim
XX Claim
XX Claim
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Best Local S
Matches 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Array comprising adapter sequences useful for immobilizing or detecting target nucleic acid sequence, has different addresses comprising different specific capture probes.
                                                                            Array comprising adapter sequences useful for immobilizing or detecting target nucleic acid sequence, has different addresses comprising
                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide array; adapter sequence; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide adapter/capture probe 9357.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to an oligonucleotide array (I) comprising 25 different addresses (adapter sequences) with each comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 108; 261pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gunderson
                               Claim 1; Page 204; 261pp; English
                                                                                                                         WPI; 2002-292068/33.
                                                                                                                                                                                                                  25-AUG-2000;
29-AUG-2000;
                                                                                                                                                                                                                                                              27-AUG-2001; 2001WO-US026519
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29-AUG-2000;
                                                                                                                                                                                      (ILLU-) ILLUMINA INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGGGATCAGGACTCAGGTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTGGGATCAGGGATCAGGCTG
                                                             specific capture probes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
nilarity 86.4%;
Conservative
                                                                                                                                                                                                                 2000US-0227948P
2000US-0228854P
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2000US-0228854P
                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4392
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an

oligonucleotide

array

E

comprising

at least

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RESULT 383
ARI66361/c
ID AAI663
XX AAI663
XX AAI663
XX Human;
XW Human;
XW Human;
XW Haemo;
XW Homo s
XX Homo s
XX II-OCI
XX II-OCI
XX II-MAI
XX III-MAI
X
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                                                                                                    Query Match
Best Local Similarity
Matches 19; Conserv
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Best Local Similarity
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                                                                                                                                                                                                            Sequence 24
                                                                                                                                                                                                                                                                                             The present invention provides the protein and coding sequences of human phosphatidylinositol-3 (PTDINS-3) kinase 35. The sequences can be used in the treatment of cancer, haemopathy, HIV infection, development disorders, immunological diseases and inflammation. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human phosphatidylinositol-3 (PTDINS3) kinase 35 for diagnosing treating malignant tumor, hemopathy, human immunodeficiency virus infection, immunological diseases and various inflammations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAI66361 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 5 A; 4 C; 9 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   мао У,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-JAN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; Page 12; 34pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-025836/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BIOW-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-MAR-2000; 2000CN-00114973.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-MAR-2001; 2001WO-CN000328.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200175014-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; phosphatidylinositol-3 kinase 35; PTDINS-3 kinase 35; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human phosphatidylinositol-3 kinase 35 cDNA PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             naemopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4371
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BIOWINDOW GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Xie Y;
                                                                                                                                                                                                                                                                    primer for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGGGATCAGGACTCAGGTTG 23
  TTAAAAAAAAAAAAAAAAAAA
                                                  ТТААААААТАСААААААСААА 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGGGATCAGGGATCAGGCTG 4392
                                                                                                                                                                                                               BP; 3 A; 0 C; 1 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           development disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                    the coding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEV INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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Pred. No. 5e+02;
                                                                                                                                Score 17.2; DB Pred. No. 5e+02;
                                                                                                                                                                                                                                                                    sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SHANGHAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HIV infection; immunological disease;
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                                                                                                                                                                                                                                                                         invention
                                                                                                                                                       Length
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                                                                                                             Indels
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                                                                                                                                                                  24;
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                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 385
ABK86169
ID ABK861
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                                                                                                                                                                                                                                                                                                 The invention relates to an isolated nucleic acid molecule comprising a nucleotide sequence that encodes a Hong Kong New Gene (HKNG) 1 gene product. The human gene for HKNG1 is located on chromosome 18p in an area associated with bipolar affective disorder, BAD. Also included are an expression vector comprising the nucleic acid, a host cell expressing the nucleic acid, an anti-HKNG1 antibody, a method of identifying modulators of HKNG1, and identifying an individual (at risk of) having HKNG1. Consider comprising detecting the presence or absence of a polymorphism that correlates with an HKNG1 allele associated with the individual (is at risk of) having HKNG1-mediated disorder. A (small molecule) compound which modulates (inhibits or potentiates) expression of a HKNG1 gene or gene product in a human individual is useful for the treatment of a HKNG1-mediated disorder such as bipolar affective disorder (BAD), severe bipolar affective (mood) disorder (BP-I) and schizophrenia. The present sequence is PCR primer which amplifies an HKNG1 sequence
                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus sp.
Synthetic.
                                                                                                                                                                                                                                                                       Sequence 24 BP; 8 A; 1 C; 10 G; 4 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New nucleic acid molecule Hong Kong New Gene 1 (HKNG1), useful for screening for molecules which modulate HKNG1 expression for the treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HKNG1; 88; chromosome 18p; bipolar affective disorder; BAD; PCR; primer; severe bipolar affective (mood) disorder; BP-I; schizophrenia; Hong Kong new gene 1; antimanic; antidepressant; neuroleptic.
                ABK86169
                                                ABK86169 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 19; Page 174; 367pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of bipolar disorder and schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-195962/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-AUG-2000; 2000US-00631275.
28-NOV-2000; 2000US-00722544.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Rat KHNG1 degenerate PCR primer #6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (MILL-) MILLENNIUM PHARM INC. (REGC ) UNIV CALIFORNIA.
                                                                                                                                                                  1191 GAGAGAGAAATCAGAGAAAGGCAG 1214
                                                                                                                                                                                                      19;
                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Freimer NB,
                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                    79.2%;
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                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                      1; Mismatches
                                                                                                                                                                                                                      Score 17.2;
Pred. No. 5e
                                                                                                                                                                                                                                      DB 1; Length 24;
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                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                      Gaps
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RESULT 386
ABK86168/C
ID ABK861
XX
AC ABK861
XX
DT 24-SEP
XX

standard;

DNA; 24

BP

0

24-SEP-2002 ABK86168; ABK86168

(first entry)

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CC of gene expression in one or more samples, comprising an identifier having a specific oligo-dT primer sequence, where the identifier comprises a CC detectable marker at its 5' end. The system is useful for identifying any CC or all genes expressed in a given in vivo or in vitro RNA sample, as well as the relative differences in mRNA between 2 or more samples, where CC desired, for supporting discovery of new genes, and for identifying mRNAs that are expressed at different levels between 2 or more samples. The new system or method addresses limitations of prior methods by comprising CC compositions and systems that incorporate new strategies where molecular CC or biochemical assay compositions and systems are linked to DNA or RNA CC sequence databases for optimal resource efficiency in assaying gene CC expression. The system has the following advantages over existing compositions in addition to information or clone library construction is not needed to enable the assay; (b) provides immediate sequence in formation concerning changes or differences completed in the sample for subsequent investigation by common molecular biology cechniques; and (d) does not require prior knowledge of the sequence of the organisms lacking significant genomic sequence in formation. The present companisms lacking significant genomic sequence in formation. The present companisms lacking significant genomic sequence in formation. The present companisms and oligo dT primer used in the method of the
밁
                                  S
                                                                           Query Match
Best Local Similarity
Matches 19; Conserv
                                                                                                                                                               Sequence 24 BP; 20 A; 0 C; 1 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 11; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying and characterizing gene expression in samples, for identifying mRNAs expressed at different levels, comprises employing an identimer having a oligo-dT primer of a specific sequence and a detectable marker at its 5' end.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-508123/54.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oligo dT primer; gene expression analysis; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-SEP-2002
                                                                                                                                                                                                       invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to systems for identification and characterisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (GENO-) GENOMIC SOLUTIONS INC.
                                      5391 TTANAAAAATACAAAAAAGAAA 5412
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ω
TTAAAAAAAAAAAAAAAAAA 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dombkowski AA,
                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nagel
                                                                             0; Mismatches
                                                                                                Score 17.2; DB 1; Length 24; Pred. No. 5e+02;
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                                                                                 Indels
                                                                                 0,
                                                                                 Gaps
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Oligo

t,

primer #1 used in method to study gene expression.

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RESULT 387
ADB92755
ID ADB927
XX
AC ADB927
XX
AC ADB927
XX
DT 04-DEC
XX
DE Human
XX
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                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                CC desired, for supporting discovery of new genes, and for identifying mRNAs cc that are expressed at different levels between 2 or more samples. The new system or method addresses limitations of prior methods by comprising cc compositions and systems that incorporate new strategies where molecular crown blochemical assay compositions and systems are linked to DNA or RNA cc sequence databases for optimal resource efficiency in assaying gene cc expression. The system has the following advantages over existing cm thods: (a) prior sequence information or clone library construction is continued to enable the assay; (b) provides immediate sequence in formation in addition to information concerning changes or differences in mRNA level, to determine mRNA expression level and mRNA identification cc in one assay; (c) generates cDNA fragments from all mRNAs present in the cs sample for subsequent investigation by common molecular biology ctechniques; and (d) does not require prior knowledge of the sequence of the genome of the organism under investigation and can be employed in corganisms lacking significant genomic sequence in formation. The present convention
                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of gene expression in one or more samples, comprising an identimer having a specific oligo-dT primer sequence, where the identimer comprises a detectable marker at its 5' end. The system is useful for identifying any or all genes expressed in a given in vivo or in vitro RNA sample, as well as the relative differences in mRNA between 2 or more samples, where
                                                          04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                Sequence 24 BP; 3 A; 1 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 11; 45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-2000; 2000US-0244933P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-2001; 2001WO-US045401.
                       Human hereditary haemochromatosis SNP
                                                                                                                                   ADB92755 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to systems for identification and characterisation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying and characterizing gene expression in samples, for identifying mRNAs expressed at different levels, comprises emploidentimer having a oligo-dT primer of a specific sequence and a detectable marker at its 5' end.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-508123/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-MAY-2002
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                                                                                                                                                                                                                                 22
                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 primer;
                                                                                                                                                                                                                                                                ТТАРАВАВТАСАВАВАВСВАВ 5412
                                                                                                                                                                                                                                 TTAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                         Conservative
                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene
                                                                                                                                   DNA; 24
                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nagel AC;
                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                         Score 17.2; DB 1; Length 24; Pred. No. 5e+02;
                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 analysis; primer;
                       H63D
                     probe #14
                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       employing
                                                                                                                                                                                                                                                                                                       <u>,</u>
                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                         0
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RESULT 388
ADG17657/c
ID ADG176
XX ADG176
AC ADG176
XX A

26-FEB-2004

(first entry

ADG17657 standard;

DNA;

differentiation; osteoclast precursor cell; Toll-like receptor ligand; TLR ligand; osteopathic; gene therapy; bone loss; bacterial infection; PCR; primer; ss; RT-PCR; reverse transcription PCR; mouse; murine.

Mouse toll-like receptor (TLR) 9 RT-PCR primer SeqID19.

맑 S

2282 GTCCAGATGACCTCAGGAAGCA 2303

19;

Conservative

<u>,</u>

Mismatches

ω •

Indels

<u>..</u>

Gaps

0

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The invention relates to a method of determination of a copy number of a copy determining the companies of a dosage region in a sample and genotyping a target copy number of a dosage region in a sample and genotyping a target copy number of a dosage region in a sample and genotyping a target copy number of a dosage region in a sample and genotyping a target copy number of a dosage region in a sample and genotyping disease profiling, disease profiling, chemopredictive testing, disease profiling, considering and genotyping of other copy number of genotyping for trait analysis and genotyping of other copy number of contract of genomic research and clinical diagnostics. The methods provide accurate genomic research and clinical diagnostics. The methods provide accurate companies determinations that are also amenable to large-scale gene cosage investigations and parallel determination of gene dosage and point combations in a single assay, are capable of detecting a wide variety of mutations in mechanisms within a single platform including simple contactions and mechanisms within a single platform including simple concleotide substitutions; provide deletions and insertions of one complexes apare, provide inversions and large deletions and considerable polymorphisms. The methods detect gene condications despite a wide range of melting temperature complexes. The present sequence represents a fundamental provide accurate complexes and condications despite a wide range of melting temperature complexes. The present sequence represents a fundamental provide accurate polymorphism probe.
Query Match
Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ss; human; probe; copy number determination; dosage region; risk profiling; chemopredictive testing; disease profiling; pharmacogenetic testing; genetic mutation; genetic disease.
                                                                                          Sequence 24 BP; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Determination a copy number of a dosage region, useful for disease profiling, comprises hybridizing dosage region to cross linkable probe mixture having dosage reporter probe of cross linking agent, detectable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   04-SEP-1998;
03-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-MAR-2002; 2002US-00093626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-JUL-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 3; Page 15; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-709175/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Peoples R, Atta RV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (PEOP/) PEOPLES (ATTA/) ATTA R '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                label and sequence.
                           Local Similarity
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                                                                                             A; 5 C; 5 G; 3 T; 0 U; 1 Other;
                        86.4%;
                                                 0.3%;
                             Score 17.2; DB 1; Length 24; Pred. No. 5e+02;
                           5e+02;
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ARSSULT 389
ADG75923/c
ID ADG759
XX ADG759
XX ADG759
XX Inmuno
XX Inmuno
XX B8; no
KW B8; no
KW prolife
XW prolife
XW renal
XX Yornal
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Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention relates to a novel method of inhibiting differentiation of an osteoclast precursor cell comprises contacting the cell with at least one Toll-like receptor (TLR) ligand, where the TLR ligand stimulates at least one TLR on the osteoclast precursor cell, thus, inhibiting differentiation of the osteoclast precursor cell. The invention may be useful for the development of compounds with an osteopathic activity or for gene therapy. The composition and methods are useful in inhibiting differentiation of an osteoclast precursor cell which may be used in the development of therapies to treat patients suffering from bone loss associated with bacterial infection and bone loss resulting from other diseases. These may also be used in identifying a Toll-like receptor that inhibits differentiation of an osteoclast precursor cell. The present sequence is that of a mouse toll-like receptor (TLR) RT-PCR primer which was used in the exemplification of the invention.
                                                                                                                                                        ss; non-CpG; immunostimulatory; non-palindromic; immune response;
proliferation; differentiation; cytokine; antibody production; B-cell;
plasmacytoid dendritic cell; immunomodulator; gene therapy;
chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inhibiting differentiation of an osteoclast precursor cell, useful for treating bone diseases, comprises contacting the cell with a Toll-like receptor (TLR) ligand that stimulates a TLR on the osteoclast precursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-903937/82.
                                                            WO2003101375-A2
                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                11-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                           ADG75923 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example, SEQ ID NO 19; 72pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-MAY-2002; 2002US-0379941P.
14-APR-2003; 2003US-0462859P.
                                                                                                                                                                                                                                                       Immunostimulatory non-CpG oligonucleotide IMT 178 SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UYPE-) UNIV PENNSYLVANIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-MAY-2003; 2003WO-US014946.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3127 GAGCTGGACCTGAGCTTCAATG 3148
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
ilarity 86.4%;
Conservative
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Pred. No. 5e+0
0; Mismatches
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RESULT 390
ADOB10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention relates to novel immunostimulatory oligonucleotides that CC contain a non-palindromic sequence motif. Specifically, it refers to DNA CC oligonucleotides (without a CGG motif), which can stimulate an immune CC response in animals of the order of primate, including humans. The immune CC and antibody production in B-cells, as well as cell differentiation, cytokine CC and antibody production in plasmacytoid dendritic cells. The present CC invention describes immunomodulator compositions that also comprise an CC invention describes immunomodulator compositions that also comprise an CC cells and glycolipids. As such, these DNA oligos can be used in gene CC therapy for inducing B-cell activation, treating, preventing or CC ameliorating an immune system disorder or a tumoural disease including CC chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonucleotide sequence is an immunostimulatory non-CpG variant DNA oligo, used in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene typing; polymorphic microsatellite loci; PML; disease predisposition; microsatellite marker; prion disease; cystic fibrosis; malignant hyperthermia syndrome; metabolic dimilk protein; hormone; transcription factor; pT7-blue-vector;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.
                                                                                                                                      09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                        09-AUG-2002; 2002DE-01036711.
                                                                                                                                                                                                                                                                          26-FEB-2004
                                                                                                                                                                                                                                                                                                                                        DE10236711-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cow prion protein microsatellite locus primer #90.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADO81078 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-053333/05.
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                                                                     (UYHO-) UNIV HOHENHEIM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5404 AAAAAGAAAAATGAAAATAAA 5425
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Geldermann H,

Preuss S,

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ARTI2442/c
ID AATI2442;
XX AATIVITAL
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XX AATIVITAL
XX VITAL INFO
XX Synthetic
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XX Synthetic
XX Synthetic
XX WO9603500
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PA (LTTL-)
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Best Local
     WPI; 1996-117045/12
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                                                                                                                                                                                            26-JUL-1994;
01-NOV-1994;
                                                                                                                                                                                                                                                                            25-JUL-1995;
                                                                                                                                                                                                                                                                                                                                     08-FEB-1996.
                                                                                                                                                                                                                                                                                                                                                                                         WO9603500-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antiviral phosphorothioate oligonucleotide #25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
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KAKEN PHARM
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                                                      Shimada J,
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                                                                                                                                                                                            94JP-00173862.
94JP-00268603.
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                                                         Mizushima
                                                                                                               GIT
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Pred.
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RESULT 392
AAPO5470/c
ID AAPO54
XX AAPO54
XX RADO54
XX RIDO2X
DT 16-PEB
XX RIDO2X
XX RIDO2X
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                                                                                                                                                     The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATI2435-TI2454 represent phosphorothioate oligonucleotides wiantiviral activity. These sequences, and the phosphorothioate oligonucleotides represented by AATI2418-TI2434 (which are conto regions of the mRNA 4 or 5 of herpes simplex virus 1 (HSV)) effective in the prevention and treatment of viral infection. sequences are especially effective against infection by HSV, I varicella zoster virus (VZV)
                                                                            Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                    Claim 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Enzymatic and antisense nucleic acid inhibition of repressor genes, useful for producing e.g. granulocyte colony stimulating factor protein, interferon alpha and erythropoietin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Blatt L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hammerhead ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF05470;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF05470 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antiviral phosphoro:thioate oligo:nucleotide(s) - active against e.g. herpes simplex virus 1, HIV and varicella zoster virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-APR-2000; 2000WO-US009721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ribozyme; erythropoietin; granulocyte colony stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-FEB-2001
                                                                                                                                    interferon alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       interferon alpha;
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                                                                                                                                                                                                                                                                                                                                                                                 Page 117; 164pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zwick M,
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                                                                                 BP; 2 A; 2 C; 0 G; 13 T; 0 U; 0 Other;
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0.3%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mcswiggen J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #2689.
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.5.1e+02;
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Query Match Best Local Similarity

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                                                                                                                                                                                                                                                                                                                                                                                   cc in the phenomena of tumour suppression, tumour reversion, apoptosis complete and/or resistance to viruses. The invention may be useful for the concerning of neuropeoutes with a cytostatic, virucide, neuroprotective, concerning of neuropeoutes with a cytostatic, virucide, neuroprotective, concerning of neuropeoutes with a cytostatic, virucide, neuroprotective, concerning of neuropeoutes with a cytostatic properties, neuroprotective, concerning of neuropeoutes, concerning of the sequence may be useful as component of a gene chip, in continuous concerning of the production of recombinant continuous continuous
                                                                                                                                                      Query Match
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003025177-A2
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                                                                                                                                                                                                                                                                                                                Sequence 17 BP; 7 A; 4 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 3660; 30pp; French
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AATI2435-T12454 represent phosphorothioate oligonucleotides with antiviral activity. These sequences, and the phosphorothioate oligonucleotides represented by AATI2418-T12434 (which are complementary to regions of the mRNA 4 or 5 of herpes simplex virus 1 (HSV)), are effective in the prevention and treatment of viral infection. The sequences are especially effective against infection by HSV, HIV or varicella zoster virus (VZV)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Antiviral; phosphorothioate; mRNA 4; mRNA 5; herpes simplex virus viral infection; HIV; varicella zoster virus; VZV; therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT12446;
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                                                                          Mouse; membrane bound type netrin; glycosylphosphatidylinositol; GPI; netrin B1; PCR primer; ss.
                                                                                                                                                                                                                                                                                      11-APR-2002
                                                                                                                                                                                                                                                                                                                                                                 ABA93055
                                                                                                                                                                                                                                                                                                                                                                                                                                           ABA93055 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 6; Page 150; 163pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antiviral phosphoro:thioate oligo:nucleotide(s) - active against e.g. herpes simplex virus 1, HIV and varicella zoster virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1996-117045/12.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (LTTL-) LTT INST CO (KAKE ) KAKEN PHARM
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01-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-JUL-1995;
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                                                                                                                                                                                               Mouse membrane bound type netrin PCR primer SEQ ID NO:20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             228 CCCTCACCCTCACCCTC 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18 CCCTCACCCTCACCCTC 2
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                                                                                                                                                                                                                                                                                  (first entry)
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94JP-00268603.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note= "phosphorothioate oligonucleotides"
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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RESULT 396
ADC98444/c
ID ADC984
XX ADC984
XX ONFK202
XX ONFK2003
XX ONFK2
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention describes a membrane bound type netrin having a hydrophobic region which can be combined to the cell membrane through glycosylphosphatidylinositol (GPI) at its C-terminal. Also described are: (1) a polynuclectide encoding a membrane bound type netrin; (2) an expression vector containing the polynuclectide or its fragment; (3) a host cell transfected by the expression vector; and (4) a primer used for the amplification of a membrane bound type netrin. The primer can be used in the treatment and diagnosis of diseases requiring increased expression of increase in protein. The present sequence represents a specifically
                                                                                                                                                                                                                                       20-DEC-2001;
04-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NFK202 polymorphism marker PCR primer B primer seq.
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                                                        WPI; 2003-559156/52
                                                                                                                                                                                                                                                                                                                   19-DEC-2002; 2002WO-US040948
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 4 A; 5 C; 9 G; 2 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     low bone mineral density;
single nucleotide polymorp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1061 CAGCAGTGCTGGGGAGC 1077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                       INCYTE GENOMICS
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                                                                                                   Valdes A,
Schafer A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 8; 41pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                       2001US-0342711P.
2002US-0423559P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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                                                                                                                                 Townley
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BMD;
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Pred. No.
                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bone damage; polymorphism; osteoporosis; SNP; PCR primer; ss; human.
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                                                                                                                                 Mangion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
5.2e+0
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polymorphisms in associated genes.
                                                                             bone mineral density (BMD) and/or bone
8; Page 238; 246pp; English
                                                                          damage,
                                                                             involves identifying
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The present invention describes a method of determining whether an individual is predisposed to susceptibility to low bone mineral density (BMD) and/or bone damage comprising identifying whether the individual has at least one polymorphism in a polymucleotide encoding a protein, where the polymorphism in a polymucleotide encoding a protein, see ADC98235 to ADC98315). An agent identified in an method from the present invention which can be used for the prevention or treatment of a disease resulting in susceptibility to low BMD and/or bone damage is useful in the manufacture of a medicament for use in modulating the susceptibility to low BMD and/or bone damage. The disease associated with low BMD and/or bone damage is osteoporosis. The present pcR primer sequence is used in the exemplification of the present invention.

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Sequence 20
                                    BP; 4 A; 4 C; 6 G; 6 T; 0 U; 0 Other;
             0.3%;
Score 17;
Pred. No.
DB 1; Le
5.2e+02;
             Length 20
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Query Match
Best Local S
Matches 17
ABZ87226 standard; DNA; 20
                                                                    1903 ACAGCTCTGCAGAACCT 1919
                                                  17
                                                                                         17;
                                                                                                   Similarity
                                                 ACAGCTCTGCAGAACCT
                                                                                        Conservative
                                                                                                   100.0%;
₽₽
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                                                                                          Mismatches
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                                                                                         Gaps
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RESULT 397
ABZ87226/c
ID ABZ872
XX A
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Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; Homo sapiens. inflammation; respiratory gene therapy;

WO200285308-A2

23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC.

Miller ÷ JW, Li Y, Sa Tang L, Sandrasagra A, Shahabuddin S Katz 'n Pabalan Ģ Aguilar D;

2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or corresponding control steroid or corresponding companies.

Claim 15; SEQ IJ NO 2468; 872pp; English

The invention relates to a novel first active agent comprising an initiation codon, coding region, pharmaceutical composition, which has a oligonucleotide antisense to the 5' or 3' end genomic flanking regions,

Determining whether an

individual is predisposed to susceptibility to

low

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RESULT 398
ABD23456/c
ID ABD234
XX ABD234
XX ABD234
XX ABD234
XX ABD234
XX Human;
XX H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC junctions of genes encoding a polypeptide associated with lung and/or CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing sensitivity to adenosine, reducing levels of adenosine CC lung surfactant in a subject stissue, or treating bronchocomstriction, CC lung inflammation, lung allergies, or a respiratory disease or condition. CC Note: The sequence data for this patent is not represented in the printed constriction, but was obtained in electronic format directly from WIPO care ferm who have not compared to the composition of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                         Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisathmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rithnitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                    Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-APR-2002; 2002WO-US013143.
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                                                                                                                                                         bronchodilating
                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-093058/08.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1180 AGAGAAAGAGAGAGAGA 1196
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                                                                                                                                                         agent.
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L, Shahabuddin
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This invention describes a novel composition (a) a first active agent,

Differential display method for identifying secreted or transmembrane protein, comprises contacting a DNA with a first primer that hybridizes

Claim 15; SEQ ID NO 2468; 763pp; English.

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ABXO3804

ID ABXX

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AC ABXX

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DT 09-1

DT 09-1

DX DIF

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KW BLF

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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Differential display method; leucine-rich motif; transmembrane protein; secreted protein; secreted protein signal peptide; ss.
                                                                                                            P-PSDB;
                                                                                                                                                                                                                                                                                                                                                           23-JAN-2001; 2001US-0263158P.
                                                                                                                                                                                                                                                                                                                                                                                                                                  23-JAN-2002; 2002WO-IL000071.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA encoding secreted protein signal peptide sequence #13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 0 A; 8 C; 0 G; 12 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                            (UYRA-) UNIV RAMOT APPLIED RES
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RESULT 400
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KW Glomex
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Matches 17
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                                                                                                                                          Todd JA, Hess JW, (Hey P, Kawaguchi Y, Phillips MS, Twells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LRPS PCR primer
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New isolated LDL-receptor related protein - used to deversating, e.g. elevated triglyceride levels, diabetes,
                                                                                         WPI; 1998-594573/50
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05-JUN-1997;
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MERCK & CO INC.
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97US-0048740P.
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                                                                                                                                                                       Caskey CT,
Y, Merriman
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                                                                                                                                             RCJ;
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Pred. No.
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                                                                                                                                                                                                 Cox
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                                                                                                                                                                    RD, Gerholo
Metzker ML,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 21;
                                                                                                                                                              Gerhold D, Hammo
ker ML, Nakagawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
        develop products
es, autoimmune
                                                                                                                                                                                                    Hammond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                 H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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                                                                           Query Match
Best Local S
Matches 18
                                                                                                                                                                                                       The present invention describes LRP5 (low density lipoprotein (LDL) receptor related protein, previously designated LRP-3). AAV85522 to AAV85586 represent PCR primer used for obtaining LRP5 CDNA. Nucleic acid molecules (NAMs) encoding LRP5 can be used for determining if an individual is susceptible to insulin dependent diabetes mellitus (IDDM). The NAMs or proteins can be used for reducing triglyceride levels in the serum of an individual. Therapies that affect LRP5 may also be useful in the treatment of autoimmune diseases such as glomerulonephritis, diseases and disorders involving disruption of endocytosis and/or antigen presentation, cytokine clearance and/or inflammation, viral infection, pathogenic bacterial toxin contamination, elevation of free fatty acids or hypercholesterolemia, type 2 diabetes, osteoporosis, Alzheimer's disease and cardiovascular disease. Products from the present invention
                                                                                                                                                    Sequence 20
                                                                                                                                                                                               can also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 12; Page 98; 200pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disorders, inflammation or Alzheimer's disease
                                      3599
                                                                             18;
                                                                                               Similarity
                        AGGCTAATCTCAAACTCCTG 3618
                                                                                                                                                                                               be used for detection, diagnosis and drug screening
  AGGCTGGTCTCAAACTCCTG 20
                                                                           0.3%;
nilarity 90.0%;
Conservative
                                                                                                                                                        BP; 4 A; 6 C; 5
                                                                           0
                                                                                                                                                           G; 5 T; 0
                                                                                               Score 16.8; DB 1;
Pred. No. 5.6e+02;
                                                                             Mismatches
                                                                                                                                                           U; 0 Other;
                                                                       3.6e+02;
2;
                                                                                                                  Length 20;
                                                                                 Indels
                                                                             0
                                                                             Gaps
                                                                                 0
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RESULT 401
AAF23284/c
ID AAF232
XX AAF232
XX ITS; i I
XW MYCOba
XX ISJHI
PA (KIMC
PA (FARK
XX MPI;
PA (KIMC
PA (FARK
XX MPI;
PT MCHOC
PT MON-1
PT MON-1
PT MON-1
PT MCHOC
PT MIM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotide for detection of Mycobacterium smegmatis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF23284;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Mycobacterium smegmatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF23284 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mycobacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mycobacterium
Mycobacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                                               internal transcribed spacer region; Mycobacterium fortuitum; bacterium chelonae; Mycobacterium abscessus; Mycobacterium vaccae; bacterium flavescens; Mycobacterium astaticum; tuberculosis; bacterium porcinum; Mycobacterium acapulcensis; identification; bacterium diernhoferi; PCR primer; probe; detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
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WO200073436-A1

29-MAY-1999; 29-MAY-1999; 29-MAY-1999; 16-MAY-2000; 2000WO-KR000477. 99KR-00019632. 99KR-00019633. 99KR-00019634. 99KR-00019635. 99KR-00019631.

07-APR-2000; 29-MAY-1999; 29-MAY-1999; 2000KR-00018189 8 LID.

(KIMC/)) SJ HIGHTECH () KIM C M. () PARK H K.

Kim CM, Park HK, Jang 품

WPI; 2001-061527/07.

Novel oligonucleotide sequences of internal transcribing spacer region non-tuberculosis mycobacteria (NTM) used as probes or primers for detecting and identifying mycobacteria and distinguish TB complex from

Claim

29; Page 68; 89pp; English

0

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RESULT 402
AAF75041
ID AAF750
XX AAF750
XX B-MAY
XX S-hyda
XX S-hyda
XX Homo 8
XX Homo 9
XX The p
CC Gene.
CC Gene.
CC Gene.
CC In add
CC In add
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Best Local S
Matches 18
                The present invention relates to 5-hydroxy tryptamine receptor 1A (HTR1A) gene. HTR1A-encoding polymuclectides containing one or more of the novel polymorphic sites are useful in studying the expression and biological function of HTR1A, as well as in developing drugs targeting this protein. In addition, information on the combinations of polymorphisms in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with nucleotide sequences in ITS of specific mycobacteria, and thus they can detect and identify the specific mycobacteria sensitively. The oligonucleotides can also detect and identify the specific mycobacteria by PCR amplification. Using the oligonucleotide primers or probes made from ITS of mycobacteria, it is possible to detect mycobacteria, it is possible to detect mycobacteria distinguish tuberculosis (TB) complex from non-tuberculosis mycobacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               M. vaccae, M. flavescens, M. asiaticum, M. porcinum, M. acapulcensis, M. diernhoferi genes were identified. The oligonucleotides derived from these sequences were used to develop PCR primers and hybridisation probes for detection and identification of Mycobacterium. ITS has a more polymorphic region than 16S rRNA and also has a conserved region. It is therefore highly effective as a target DNA for distinction of genotype. The oligonucleotide probes, attached to solid substrate, hybridise only with the coloridal substrate, hybridise only with the coloridal substrate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                equence. ITS (internal transcribed spacer region) nucleotide sequence. ITS DNA sequences from M. fortuitum, M. chelonae, M. abscessus, M. vaccae, M. flavescens, M. asiaticum, M. norrinum M. and and all and a chelonae.
                                                                                                                                                                                               New 5-hydroxy tryptamine receptor 1A gene variants expression and biological function of the gene and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5-hydroxy tryptamine receptor IA; HTRIA; polymorphism; Tourette's; neuropsychiatric; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                      Example 1;
                                                                                                                                                                          targeting 5-hydroxy tryptamine
                                                                                                                                                                                                                                                        WPI; 2001-191514/19.
                                                                                                                                                                                                                                                                                              Denton
                                                                                                                                                                                                                                                                                                                                                                                                                01-AUG-2000; 2000WO-US040519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200110884-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Primer #13.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF75041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAF75041 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-FEB-2001.
                                                                                                                                                                                                                                                                                                                                     (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        193 CGTTGCCCACACCCCATCTC 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                              ₽,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and to identify mycobacteria species accurately and effectively
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGTTTCCCACACCGCATCTC 1
may have diagnostic and forensic applications. A
                                                                                                                                    Page 33; 64pp;
                                                                                                                                                                                                                                                                                              Kliem SE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            вP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                            99US-0147711P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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                                                                                                                                                                                                                                                                                              Nandabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
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                                                                                                                                    English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.8; DB 1;
Pred. No. 5.6e+02;
                                                                                                                                                                          receptor 1A protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                              Stephens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 20;
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                                                                                                                                                                                               for
                                                                                                                                                                                             studying
developing
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RESULT 403
ADD12399/c
ID ADD123
XX ADD123
XX ADD123
XX Caspas
XW Caspas
XW Gaspas
XW G
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          variant of HTRIA is useful in studying the effect of biological activity of HTRIA as well as studying the candidate drugs targeting HTRIA for the treatment of diseases and Tourette's syndrome
                                        19-JAN-2000; 2000US-00487445
                                                                            19-JAN-2000; 2000US-00487445.
                                                                                                                                                                                                                              modified_base
                                                                                                                                                                                                                                                                                                        modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caspase 8; infection; inflammation; tumour; research reagent; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human caspase 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAD12399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD12399 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 7 A; 0 C; 13 G; 0 T; 0 U; 0 Other;
                                                                                                                    10-JUL-2001
                                                                                                                                                          US6258600-B1
                                                                                                                                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2563 GAGGGGGAGAGAGAGATGGA 2582
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAGGGGAGAGAGGAAGGA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antisense;
                                                                                                                                                                                                                                                                                                  mRNA antisense compound ISIS 107677.
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/mod_b:
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e= "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                                                                                                                                                                                                                                                                                  base=
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                                                                                                                                                                                                                                                      "2'-methoxyethyl
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                                                                                                                                                                                              mSc
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Pred.
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No. 5.
                                                                                                                                                                                                                                                        (2'-MOE)
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                                                                                                                                                                                                                                                        nucleotides"
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binding affinity
neuropsychiatric
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(ISIS-) ISIS PHARM INC.

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RRESULT 4C
RRESULT 4C
RADNA6953
ID ABNA6953
ID ABNA6953
ID ABNA6953
ID ABNA6
AC ABNA6
AC ABNA6
XX ADNA6
XX Huma
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XX CCTOL
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XX PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                          Grosse WM,
Kekuda R,
Edinger S,
                                                                                                                                                                                                                                                                                 16-OCT-2000;
16-OCT-2000;
16-OCT-2000;
16-OCT-2000;
16-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                          12-OCT-2000;
16-OCT-2000;
16-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to antisense compounds which inhibit the expression of human caspase 8. The antisense compound is useful for diagnosing and treating diseases associated with the expression of caspase 8 and for prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, and as a research reagent. The present sequence is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antidiabetic; immunosuppressive; neuroprotective; gene therapy; cancer; cardiomyopathy; atherosclerosis; cell signal processing; diabetes; AIDS; metabolic pathway modulation; neoplastic; neurological disorder; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New antisense compounds capable of modulating expression of caspase 8 the diagnoses, prophylaxis and treatment of diseases associated with expression of caspase 8, e.g. inflammation and tumor formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200230974-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; NOVX; cytostatic; antiarteriosclerotic; cardiovascular; lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12-OCT-2001; 2001WO-US031922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adenocarcinoma; prostate cancer; uterus cancer; immune response
Crohn's disease; multiple sclerosis; Graft versus host disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-JUL-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABN86953 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antisense compound targetted to human caspase 8 mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3175 CTTTGCCAGAGACTGAGACA 3194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ή
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20 CTTTGCCAGAGCCTGAGAGA 1
                                                                                                                                            CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15; Col 43-44; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cowsert LM
                       Alsobrook JP, Lepley DM, Burgess CE, Mishra
Li L, Padigaru M, Shimkets RA, Zerhusen BD,
Gerlach V, Macdougall J, Stone D, Gunther E,
                                                                                                                                                                                                                         ; 2000US-0240113P.
2000US-0240625P.
; 2000US-024063PP.
; 2000US-0240648P.
2000US-0240662P.
; 2000US-0240662P.
; 2000US-024073P.
; 2000US-0240732P.
; 2000US-0241190P.
; 2001US-0262455P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR primer SEQ ID NO:72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.8;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                             Spytek KA;
, Ellerman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                <u>~</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for
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The present invention describes novel human proteins designated NOVX CC (where X is 1, 2a, 2b, 2c, 2d, 3, 4, 5, 6a, 6b, 7, 8, or 9). NOVI is a CC tyrosine-protein kinase 6-like protein; NOV2a-d are keratin 4-like CC proteins; NOV3 is a collagen-like protein; NOV4 is a cystatin B-like CC protein; NOV5 is a serotonin receptor-like protein; NOV4 is a cystatin B-like CC protein; NOV8 is a leukocyte surface antigen (CD53)-like protein; NOV6 is a matrilin-2-like CC protein; NOV8 is a leukocyte surface antigen (CD53)-like protein; and CC neuroprotective activities, and can be used in gene therapy. The NOVX sequences can be used in therapeutics, particularly for treating, CC preventing or alleviating a NOVX-associated disorder or a pathological CC state in a subject, particularly a human. These disorders include CC cardiowyopathy, atherosclerosis, a disorder related to cell signal CC processing and metabolic pathway modulation or diabetes. The NOVX CC sequences are also useful for determining the presence of or processing and in the taspeutic or prophylactic applications for neurological disorders, and in the treatment of CC neoplastic or neurological disorders, and in the treatment of CC adenocarcinoma, lymphoma, prostate cancer, uterus cancer, immune cresus host disease. The present sequence represents a PCR primer for human NOV7. which is used in an example from the present invention
Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New NOVX polypeptides and polynucleotides, useful for treating or preventing a NOVX-associated disorder or a pathological state in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 205; 227pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cancer or diabetes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002-444172/47.
                                                     NOV7, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              particularly a human, e.g. cardiomyopathy, atherosclerosis,
  BP; 7 A; 1 C; 10
  G; 2 T; 0 U; 0 Other;
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片
              Ś
                                  Query Match
Best Local S
Matches 18
                                 Local Similarity
les 18; Conserv
            574 AAGGAGGAGCTGAAGGAGTT
AAGGAGGAGCTGGAGGAGAT 20
                                   Conservative
                                          0.3%;
                                   <u>,</u>
                                          Score 16.8; DB 1;
Pred. No. 5.6e+02;
                 593
                                   Mismatches
                                                     ۲,
                                                    Length
                                   Indels
                                                     20
                                   0
                                   Gaps
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RESULT 405
ABZ25473/c
ID Z6254
XX ABZ254
XX ABZ254
XX Nicoti
XX Plant
KW Plant
KW Primes
XX Synth
YX JP200
XX JP200
                                                                                                                                                                                                                                         Nicotiana tabacum peroxidase PCR primer, SEQ ID 20.
                                                                                                                                                                                                                  Plant
                                                                                                                                                                                                                                                                                           ABZ25473;
                                                                                                                                                                                                                                                                                                                    ABZ25473 standard; DNA; 20
                                                                                                                                                                                                               growth
                                                                                                                                                                                                                  regulant;
                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                  peroxidase; enzyme;
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primer; stress-resistant; plant; PCR;

JP2002281979-A.

02-OCT-2002

28-MAR-2001; 2001JP-00091994.

2001JP-00091994

(TOYT) TOYOTA JIDOSHA ğ

2003-170475/17.

stress-resistant plant comprises a gene encoding a protein

£XXXSSSSXXX

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RESULT 406
ACC84083/c
ID ACC840
XX ACC840
DT 22-SEI
XX Chick
XX Ovomu
XX Synt!
PN W020/
PN W220/
XX 12-J
PP 02-D
XX WPI
X
                                                                                                        Query Match
Best Local S
Matches 18
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 18;
                                                                                                                                                                                                                                                                   The present sequence is that of sequencing primer OVMU44, which was used to sequence the chicken ovomucoid gene expression control region (see ACC84070). A Claimed nucleic acid comprises the ovomucoid gene expression control region operably linked to a nucleotide sequence encoding a heterologous polypeptide, especially an immunoglobulin subunit or interferon alpha-2b. The nucleic acid is used to express the heterologous polypeptide in a host (especially avian) cell or in a transgenic avian, which produces the heterologous polypeptide in the serum or egg white
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolated nucleic acid comprising avian ovomucoid gene expression control region, useful for directing expression of a nucleic acid encoding a polypeptide e.g., immunoglobulin, in an avian, preferably chicken cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to proteins with peroxidase activity and their coding sequences (ABZ25464-ABZ25465 and ABP70669-ABP70670). The peroxidase coding sequences were used to generate a transformed stress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Harvey AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ovomucoid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 4 A; 7 C; 4
                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 3; Fig 3; 75pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-NOV-2001; 2001US-00998716.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-DEC-2002; 2002WO-US038413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-JUN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chicken ovomucoid 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACC84083;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACC84083 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     resistant plant. The present primer was used in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 4; Page 11; 24pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peroxidase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (AVIG-) AVIGENICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4539 CCAGTATCGAGAGCAGCTGA 4558
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20
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                                                                                                                                   Similarity
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                                                    ACTCCTCTACCAAGCTCTTC 1003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         promoter; chicken; transgenic; avian; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Wang Y;
                                                                                                                                                                                                                       BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                       7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90.0%;
                                                                                                                                                                                                                       2
C;
                                                                                                                                   90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          regulatory region sequencing primer OVMUa4.
                                                                                                                                                                                                                       7 G; 4 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ģ
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                                                                                                                                                             Score 16.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 16.8;
Pred. No. 5.
                                                                                                                                   Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred.
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                                                                                                           ed. No. 5.6
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        No.
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                                                                                                                                   5.6e+02
                                                                                                                                                                                                                       0 Other;
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                                                                                                                                                                   DB 1;
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                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
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                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        example
                                                                                                                                                                      20,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
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The invention relates to a compound 8-30 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding caspase 8 (a protein involved in apoptosis), and inhibits the expression of caspase 8, i.e. an antisense oligonucleotide. Also included are a compound 8-30 nucleobases in length that specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding caspase 8, a composition comprising the compound and a carrier or diluent, inhibiting the expression of caspase 8 in cells or tissues (by contacting the cells or tissues with the compound so that expression of caspase 8 is inhibited) and treating an animal having a disease or condition associated with caspase 8 by administering to the animal a therapeutic or prophylactic amount of the compound so that expression of caspase 8 is inhibited. The compound composition and methods are useful for treating a disease or condition associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Caspase-8; cytostatic; immunosuppressant; anti-HIV; ss; antisense gene therapy; apoptosis; hyperproliferative disorder; hamatopoietic disorder; autoimmune disorder; viral infection; AIDS; neurological disorder; Alzheimer's disease; Parkinson's disease; amyotrophic lateral sclerosis; retinitis pigmentosa; blood cell disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding caspase 8, useful for treating a disease/condition associated with caspase 8, such as hyperproliferative or autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zhang H,
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11-JAN-2001; 2001WO-US000955
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(COWS/)
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COWSERT L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cowsert LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ
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/mod_base=
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                    The invention relates to new antisense compounds targeted to a nucleic acid molecule encoding human cholesteryl ester transfer protein, specifically hybridises with it and inhibits the expression of human cholesteryl ester transfer protein. The compound is useful for preparing a composition for treating abnormal lipid or cholesterol metabolism,
                                                                                                                                                                                                                             New antisense compound, useful abnormal lipid or cholesterol m cardiovascular disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2002WO-US024919
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Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention relates to a novel method for establishing an expression system of spider drag-line silk genes in silkworm by fusing the silkworm fibroin L-chain cDNA and its promoter upstream of the spider drag-line silk gene cDNA, ligating the fused gene with a reporter gene and inserting into a transposon to obtain a recombinant transposon which can be used to transform a silkworm egg. The method of the invention is useful for establishing an expression system of spider drag-line silk gene in B. mori. The spider dragline silk gene product accounts for 30% of total silk proteins. This method provides a rate of transformation of about 0.5-1%. The present sequence represents a PCR primer used to amplify the silkworm spider dragline silk gene (MaSPI) sequence used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Establishing expression systems of spider drag-line silk genes in silkworms, by fusing silkworm fibroin L-chain cDNA and its promoter upstream of spider drag-line silk gene cDNA to direct drag-line protein
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                               to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention artisense oligonucleotides of the invention and the antisense oligonucleotides, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence
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 antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
                                                                                                                                                                                      ADH65015 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADH64643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADH64643 standard; DNA;
                                                                                                                                                                                                                                                                                                            2564 AGGGGGAGAGAGAGATGGAG 2583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-035034/03.
                                                                                     glucocorticoid receptor-specific antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4; SEQ ID NO 1477; 985pp; English.
                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PHARMACIA CORP.
                                                                                                                                                                                                                                                                            AGGGGAAGAGGGAGATGGAG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nalseth AE;
                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                       (first
                                                                                                                                                                                        DNA;
                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                        20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                                                                                                                                                                                                                        Score 16.8; DB 1; Length Pred. No. 5.6e+02; O; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                   backbone.
                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                     #1849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            obesity,
                                                                                                                                                                                                                                                                                                                                              0
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RESULT 412
ADK7444/c
ID ADK744
XX ADK744
XX ADK744
XX Chimer
XX Nav1.3
KW diabet
KW infant
XX Synthe
PN W02004
XX W02004
XX 14-AUG
XX 14-AUG
XX Roberd
XX Roberd
XX Roberd
XX ROBERT
XX ROBERT
XX ROBERT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention comprises an antisense oligonucleotides that are targeted to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٠٠٠.
نر
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                     14-AUG-2002; 2002US-0403416P
                                                                                                                                          26-FEB-2004
                                                                                                                                                                      WO2004016754-A2
                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                                                                         diabetic neuropathy; arthritic pain;
                                                                                                                                                                                                                                                        Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia;
                                                                                                                                                                                                                                                                                   Chimeric phosphorothioate oligonucleotide to target Nav1.3 #1778.
                                                                                                                                                                                                                                                                                                                20-MAY-2004
                                                                                                                                                                                                                                                                                                                                           ADK74444;
                                                                                                                                                                                                                                                                                                                                                                       ADK74444 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 1 A; 12 C; 0 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 4; SEQ ID NO 1849; 985pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2003099215-A2
                                                                                                              14-AUG-2003; 2003WO-US025465
                                                                                                                                                                                                                           infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (PHAA)
                                                         (PHAA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2565 GGGGGAGAGAGAGATGGAGA 2584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2004-035034/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SD, Nalseth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                         PHARMACIA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                             GGGGAAGAGGGAGATGGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                               (first
                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90.0%;
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16.8;
No. 5
                                                                                                                                                                                                                                         migraine headache;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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WPI; 2004-203785/19

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RESULT 413
ADP11348/c
ID ADP113
XX ADP113
XX ADP113
XX Transa
AC ADP113
XX Homo 
E TAQMAN
XX Transg
KW Inflam
XX Uransg
KW Uransg
KW Uransg
KW WOLOUT
PF 24-APF
PR 20-DE(
XX WOLDE(
XX WPI;
XX Upancr
PT Pancr
PT Pancr
PT Tejec
PT the g
XX Claim
XX Claim
XX Claim
XX Claim
XX Claim
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothoate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                    pancreas, pancre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                 Diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-APR-2003; 2003WO-US012946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004042346-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transplant rejection; immune system; rheumatoid arthritis; inflammatory bowel disease; multiple sclerosis; HIV; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Taqman probe of the invention #31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADP11348;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADP11348 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compound ta
Nav1.3, useful for useful
with Nav1.3, e.g. pain, s
                                                                                                                                                                                                                                                                                WPI; 2004-400724/37.
                                                                                                                                                                                                                                                                                                                                                                         Wohlgemuth
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                                                                                                                                                                                                                                                                                                                                                                                                                                  EXPRESSION DIAGNOSTICS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAAAGATGGGACAGCCACT 1695
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                                                                                                                                                    pancreatic
, in an indi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or ataxia.
                                                                                                                                                    or monitoring transplant rejection, e.g. heart, kidney, liver, pancreatic islet, lung, bone marrow or stem cell transplant in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                     Ģ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
                                                                                                                                                                                                                                                                                                                                                                     Fry K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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                                                                                                                                                                                                                                                                                                                                                                         Woodward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
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Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                     ₽,
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                                                                                                                                                                                                                                                                                                                                                                     Ly N,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                         Prentice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              probe.
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Claim 58; SEQ

ID NO 1357; 1762pp; English

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diagnosing or

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RESULT 414
AAQ91937
ID AAQ919
AC AAQ91
AC AA
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Best Local
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                                                                                       TCR Va families expressed in human uveal melanoma were analysed by PCH amplification. In 7 of the 8 cases, the Va7 region was expressed and rearranged. The identity was confirmed by hybridisation to a Va7 probe (AAQ91937). The variable regions associated with different neoproliferative tissues may be determined in this way; a homogeneous composition of T-cells may then be administered for treatment of the particular neoproliferative tissue. (Updated on 25-MAR-2003 to correct
                                                                                                                                                                                                                                                                                                                                                                                                  Determining relation between auto:immune degenerative diseases and specific variable regions of T-cell receptors - as associated with the host HLA or T-cells associated with combating neoproliferative diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T-cell receptor Va7 hybridisation probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 5 A; 11 C; 4 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-1995
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28-NOV-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ91937;
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                                                                                                                                                                                                                                                                                                                                       Example 1; Page 35; 122pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-SEP-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-SEP-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (STRD ) UNIV LELAND STANFORD JUNIOR.
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neurodegeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCR; variable region Va7; multiple sclerosis; urodegeneration; uveal melanoma; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bernard C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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Pred. No. 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mitchell
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                                                                                                      correct
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                                                                                                                                                                                                                       probe
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RESULT 415
AAQ75729/c
ID AAQ7577
XX AAQ757
XX II-APF
XX II-APF
XX II-APF
XX III-APF
XX I
RESULT 416
AAT92734
ID AAT927
XX
AC AAT927
XX
DT 25-MAR
DT 04-FEB
XX
DE V-alph
XX
Frobe;
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Best Local S
Matches 18
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GRNESEQ files AQ75547-Q75788) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                          V-alpha7 probe for T-cell receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21 BP; 2 A; 0 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ75729 standard;
Probe; hybridise; T-cell receptor; TCR V-alpha; TCR V-beta; brain; MS;
                                                                                                                    25-MAR-2003
04-FEB-1998
                                                                                                                                                                                                         AAT92734
                                                                                                                                                                                                                                                                   AAT92734 standard, cDNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 8; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis of cDNA and gene expression - by amplification of by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Analysis; gene expression; reverse transcription; primer; cDNA; aggregate; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Reverse transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5389 AATTAAAAAAATACAAAAAA 5408
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                                                                                                                 (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%; Score 16.8; DB 1; Length 21; 90.0%; Pred. No. 5.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
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Pred. No. 5.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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밁 S

Asthma; airway epithelium; adenosine free; cystic fibrosis; chronic obstructive pulmonary disease; bronchitis; ss.

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RESULT 417
AAT76099/c
ID AAT76098 standard; D
XX
AC AAT76098;
XX
DT 12-SEP-1997 (first
XX
DE Human histidine deca
XX
DK Asthma; airway epith
XX
XX
XX
XX
Asthma; obstructive
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT92734 and AAT92735 represent probes for the V-alpha chain of the T-CC cell receptor (TCR). This sequence can be used in the method of the invention is for determining the presence, in a human host, of T-cells associated with multiple sclerosis (MS). The method comprises isolating T-cells from the brain or cerebrospinal fluid of a human host, and detecting in the T-cells the presence of a limited number of rearranged complementarity determining region 3 (CDR3) regions of the TCR V-alpha or V-beta chains. The rearrangements that are detected are associated with MS. The detection is carried out by isolating nucleic acid molecules from the TCR, and amplifying the molecules with primers specific for sequences 5' and 3' of the rearranged CDR3 region (such as AT92727-T92757). The method can be used for the diagnosis of MS. In calience, the diagnosis of the T-cells carrying the attack of the T-cells may involve ablation of T-cells carrying the particular variable regions, administration of compounds which inhibit binding of the T-cell receptor to the target cells or proteins. The effects of the binding of the T-cell to the target cell or protein.

(Updated on 25-MAR-2003 to correct Pf field.)
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Best Local S
Matches 18
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01-MAY-1991;
30-APR-1992;
                                                                                                               Human histidine decarboxylase antisense oligonucleotide HUMHDCAS2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Diagnosis of multiple sclerosis - by detection of T-cell receptor V-alpha or V-beta rearrangements in T-cells from the brain or cerebrospinal fluid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T-cell detection; multiple sclerosis; cerebrospinal fluid; human; CDR3; therapy; T-cell ablation; complementarity determining region 3; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Col 18; 52pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-470032/43.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                         (first entry)
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91WO-US002991.
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                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 16.8; DB 1;
Pred. No. 5.6e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 21;
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RESULT 418
AAV27994
ID AAV279
AC AAV279
XX ATAXIA
AC AAV279
XX 25-SEP
XX ATAXIA
XX 88; PC
KW radiat
XX Synthe
OS Homo s
XX W09822
XX W09822
XX W09822
XX PD 28-MA1
XX 20-NOV
XX ATAXIA
PF 17-NOV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide HUMHDCAS2 specific for the human histidine decarboxylase. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine- induced bronchoconstriction in patients with hyper-reactive airways
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 0 A; 10 C; 1 G; 10
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                                                                    20-NOV-1996;
                                                                                                                          28-MAY-1998
                                                                                                                                                     WO9822621-A1
                                                                                                                                                                                                                      radiation;
                                                                                                                                                                                                                                                              Ataxia telangiectasia exon 19 primer 1.
                                                                                                                                                                                                                                                                                                                                              AAV27994 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 5; Page 26; 71pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adenosine-free
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-JUN-1996;
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                                         (VIRG-) VIRGINIA MASON RES CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                    PCR;
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                                                                                                                                                                              sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                   primer; amplification; ataxia telangiectasia;
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                                                                                                                                                                                                                                                                                                                                                                                                                  CAGAGAGAGAGAGAGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Metzger WJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of airway diseases such as asthma - by topically applying free antisense oligo:nucleotide to airway epithelium of
                                                                                                                                                                                                                        breast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
ilarity 90.0%;
Conservative
                                                                                                                                                                                                                                                                                         (first
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                                                                    96US-00753147.
                                                                                               97WO-US020953
                                                                                                                                                                                                                                                                                         entry)
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                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 16.8; DI
Pred. No. 5.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6e+02;
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                                                                                                                                                                                                                                   diagnosis;
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RESULT 419
AAX19906/c
ID AAX199
XX AAX199
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XX Strept
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XX SET STREPT
XX WEW SI
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   The present sequence represents a PCR primer for the Streptococcus pneumoniae phoH protein, a member of the ATP-binding protein family. The PhoH protein is administered to treat individuals in need of phoH proteins (directly or via a vector i.e. gene therapy), and as an antigen for inducing an immunological response (administered directly i.e. vaccine). They can prevent adhesion of bacteria to matrix proteins, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAX19906
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                                                                                                                                                                                                                                                                            New Streptococcus pneumoniae phoH polypeptide and polynucleotide - useful as diagnostic reagents and for prevention and treatment of Streptococci infections which cause conjunctivitis and meningitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptococcus
ATP-binding pi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX19906 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Method of detecting ataxia telangiectasia - comprises use of primers based on intron-exon boundaries, useful for diagnosing disease in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zalacain M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SMIK ) SMITHKLINE BECKMAN CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3639 AATTGCTGAGATTGCAGAGG 3658
                                                                                                                                                                                                                                                                                                                                                                                                            1999-182905/16.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pleural empyema;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 us pneumoniae; phoH; antibacterial; infection; pneum
protein; otitis media; conjunctivitis; bacteraemia;
pleural empyema; endocarditis; meningitis; PCR prime
                                                                                                                                                                                                                      Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%; ilarity 90.0%; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 7 A; 2 C; 5 G; 7 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Brown JR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              pneumoniae ATP-binding phoH gene PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97US-00932978.
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                                                                                                                                                                                                               25pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 16.8; DB 1;
Pred. No. 5.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pneumonia;
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RESULT 420
AAX53903/c
ID AAX539
XX AAX539
XX AAX539
XX AAX539
XX DISTINCT OS-JUL
XX AAT18e
KW AAT18e
KW Impair
KW Lolon
KW Chroni
KW Colon
KW Colon
KW Dulmon
KW Dulmon
KW Hepato
XX WO9913
XX WO9913
XX IT-SEP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotide; multiple target; antisense treatment; impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis; acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary vasoconstriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-1997;
09-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Histidine decarboxylase receptor antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX53903 standard; DNA; 21 BP
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                                                                                                                New antisense oligonucleotides used in treatment of,
                                                                                                                                                                                                       WPI; 1999-229400/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAR-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 bacteraemia, sinusitis, pleural empyema, endocarditis and especially
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      are useful for use on wounds and body implants to prevent bacterial infection. They are also useful for identifying agonists and antagonists by screening host cells expressing phoH protein, and detecting the
                                                                                   vasoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                                                                                                                                                                                                (UYEC-) UNIV
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                                                                                                                                                                                                                                                                                                                                                                EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                           97US-0059160P.
98US-00093972.
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Disclosure; Page 45; 120pp; English

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RESULT 421
AAA33346/c
ID AAA333
XX AAA333
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XX Low ad
XX Human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC directed against at least 2 mRNAs selected from target genes, coding and common-coding regions of RNAs corresponding to target genes, gene initiation codons, genomic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of cdiseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung cdiseases, pulmonary vasoconstriction, inflammation, allergic rhinitis, cdistress syndrome, pain, cystic fibrosis, pulmonary hypertension, cdistress syndrome, pain, cystic fibrosis, pulmonary hypertension, cdisease (COPD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, beast cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, beast cancers, unlug cancer, melanoma, hepatic metastases, as well as all types of cancers which may metastasize or have metastasized to the lungs, including breast and prostate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; infilammation; allergy; allergic disease; bronchoconstriction; inhibitor; antifilammatory; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; antiallergic; antiasthmatic; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma;
                                            New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      respiratory distress syndrome; pain; cystic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD; cancer; leukaemia; lymphoma; carcinoma; metastasis; ss.
                                                                                                                                            WPI; 2000-205971/18.
                                                                                                                                                                                                                                                                                   03-AUG-1998;
                                                                                                                                                                                                                                                                                                                                  03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                 24-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                               WO200009525-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Low adenosine antisense oligonucleotide SEQ ID NO:1035.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA33346 standard, DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 0 A; 10 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                         (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    specification describes antisense oligonucleotides (AAX52869-X55271)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1179 CAGAGAAAGAGAGAGAGA 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAGAGAGAGAGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                         EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                        98US-0095212P.
                                                                                                                                                                                                                                                                                                                                    99WO-US017712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        뫔
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16.8;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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Claim 18; Page 394; 1343pp; English

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RESULT 422
AAF19468/c
ID AAF194
XX AAF194
XX I AAF194
XX I Low ad
KW Low ad
KW Inmunn,
KW respir
KW respir
KW respir
KW respir
KW chroni
KW respir
KW pulmon
KW respir
KW Burfac
KW respir
KW Wollmon
KW respir
KW Wollmon
KW Pollmon
KW Cancer
XX WO2000
XX GA-OCT
XX
PF 24-MAI
XX
PF 24-MAI
XX
PF 26-APF
XX
PA (UYEC-
PA (UYEC-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes a new composition comprising an antisense coligonuclectide (ON) with low adenosine (up to 15%), which targets conclicing acids involved in bronchoconstriction, allergies, and/or confilammation. The ON can have antiinflammatory, antialtergic, antiasthmatic, cytostatic and analgesic activities. The compositions are cuseful for the treatment of diseases associated with inflammation, compaired airways, including lung disease and diseases whose secondary ceffects afflict the lungs of a subject. They can be used for treating ceighed respiration, respiratory disteases, and diseases whose secondary cimpeded respiration, respiratory distress syndrome, pain, cytic cimpeded respiration, respiratory distress syndrome, pain, cytic carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The reduction of the adenosine content of the carcinomas, and cancers which may metastasise to the lungs, including breast and prostate cancer. The A-containing ONs break down with the celease of decayyadenosine which activates adenosine receptors causing conchoconstriction and inflammation. AAA32313 to AAA35312 represent the nucleotide sequences given in the sequence listing from the present the previously named sequences. SEQ ID NO:11 to 1680 (AAA32323 to AAA3392) are specifically claimed ONs from the present invention on the disclosure of the present invention do not match cup with their corresponding SEQ ID NO: sequences given in the sequences given in the sequences given in the sequences given in the sequences.
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Low adenosine antisense oligonucleotide; phosphorothioate; allergy; human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary obstruction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; hypotension; emphysema; pulmonary transplantation rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 0 A; 10 C; 1 G; 10
                                                                                                                      06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                               chronic obstructive pulmonary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human histidine decarboxylase polynucleotide fragment #1035.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAF19468 standard;
                                                                                                                                                                                24-MAR-2000; 2000WO-US008020
                                                                                                                                                                                                                                                                                                   WO200062736-A2
                                 (UYEC-) UNIV EAST CAROLINA.
(NYCE/) NYCE J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1179 CAGAGAAAGAGAGAGAGAGA 1198
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                                                                                                                                                                                                                                                                                                                                                                                                                    88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGAGAGAGAGAGAGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                      99US-0127958P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.8;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                  disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  pulmonary infection; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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1179 CAGAGAAAGAGAGAGAGAGA 1198

20

Best Loca Matches Query Match

Local Similarity

90.0%; 0.3%;

Score 16.8; DB 1; Length 21; Pred. No. 5.6e+02; 0; Mismatches 2; Indels

0;

Gaps

0,

Conservative

RESULT 423
ABL43857
ID ABL438
XX ABL438
AC ABL438
AC IL-APR
XX Human;
KW Human;
KW PCR px
XX PCR px
XX JP2001

primer; ss.

JP2001321190-A Homo sapiens.

20-NOV-2001.

10-MAR-2000; 2000JP-00066716. 12-MAR-2001; 2001JP-00068285. Human chromosome 1p36-35 PCR primer SEQ ID NO:901

Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;

11-APR-2002 ABL43857

(first entry)

ABL43857 standard; DNA; 21 BP

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CC immunoglobulins and antibodies, antibody receptors, cytokines and chemokines, endogenously produced specific and non-specific enzymes, commokines, endogenously produced specific and non-specific enzymes, commokine receptors, adenosine receptors, bradykinin receptors, cytokine and chemokine receptors, adenosine receptors, bradykinin receptors, central nervous system (CNS) and peripheral nervous and non-nervous system peptide receptors, central nervous and non-nervous system peptide receptors, binding proteins and malignancy associated proteins. The committees, defensins, growth factors, vasoactive peptides and correceptors, binding proteins and malignancy associated proteins. The contisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction of and/or bronchoconstriction) and/or lung inflammation, allergy(ies) and/or condition selected from pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome (RDS), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary (RDS), pain, cystic fibrosis (CP), allergic rhinitis (AR), pulmonary condition, emphysema, chronic obstructive pulmonary disease (COPD), condition, emphysema, chronic obstructive pulmonary disease (COPD), condition, and antisense oligonucleotides used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Low adenosine (A) content antisense oligonucleotides which do not trigger adenosine receptors during metabolism, useful e.g. for treating cancers and respiratory obstructions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (I) can have respiratory, bronchodilator, antiinflammatory, analgesic, immunosuppressive, antiasthmatic, hypotensive and cytostatic activities. The antisense oligonucleotides and (I) can be used to down-regulate the expression and or activity of target polypeptides associated with lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, immunoclabuling and artipodies and transmitters.
Sequence 21 BP; 0 A; 10 C; 1 G; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         oligonuclectides and compositions (I) comprising them. In the antisense oligonuclectides the A is replaced by a 'Universal' or alternative base. (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 14; Page 141; 1592pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nyce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       present invention describes low adenosine (A) content antisense gonucleotides and compositions (I) comprising them. In the antisense
                                                              invention
T; 0 U; 0 Other;
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RESULT 424
ABZ95162/c
ID ABZ951
XX ABZ951
XX ABZ951
XX ABZ951
XX Human
XX Homo E
X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method of arraying genome clones. The CC method comprises: (a) clones of the genomic libraries contained in CC multiwell plates numbered for discrimination are mixed in each of the CC multiwell plates numbered for discrimination are mixed in each of the CC multiwell plates; (b) a primer designed based on the chromosome marker CC sequence is added to the mixture to carry out an amplification reaction; CC (c) a signal corresponding to the marker is detected from the resultant CC amplified product to specify the discrimination Nos. of the multiwell CC plates containing the clones having said marker sequence; (d) the order CC of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell CC plates; (e) the Clones in the multiwell plates of the specified CC discrimination Nos. are mixed respectively in each wells of longitudinal CC and lateral directions; (f) the mixed clones are cultured and the CC resultant cultures are amplified by using the above primer; (g) signals CC are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are cultured as the positions on the chromosome and arrayed. The CC represent pCR primers for human chromosome 21422.1, which are Specifically claimed for use in the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antialtammatory; lung; adenosine; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABZ95162 standard, DNA, 21 BP
          мусе ли,
                                                                                                                                                                                                           23-APR-2002; 2002WO-US013135
                                                                                                                                                                                                                                                                                                                                            WO200285308-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human histidine decarboxylase antisense fragment no.1025.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABZ95162;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 4, Page 22; 528pp; Japanese.
                                                                                                                                        24-APR-2001; 2001US-0286137P
                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-144136/19.
                                                                         (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3600 GGCTAATCTCAAACTCCTGG 3619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GGCTAATCTTGAACTCCTGG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RIKAGAKU KENKYUSHO.
GENOTEX YG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
       Li Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
       Sandrasagra A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 5 C; 6 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 16.8; DB 1; Length 21; Pred. No. 5.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
          Katz
       M
       Pabalan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
       Aguilar D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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Sequence 21

BP; 0 A; 10 C; 1 G;

10

T; 0 U; 0 Other;

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junctions of genes encoding a polypeptide associated with lung and/or nasal airway dysfunction and a second active agent comprising an antiinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject stissue, or treating bronchoconstriction, and inflammatory steroid stissue, or treating bronchoconstriction, and the still state of the state of the story of the state of the story o
                                                                          lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired respiration; has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 10404; 872pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tang L,
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RESULT 425
ADJ92226
ID ADJ922
XX ADJ922
XX ADJ922
XX ADJ922
XX Hair
DE Human
XX hair
KW hair
KW therap
XX Chomo &
OS Synthe
XX Synthe
XX Synthe
XX IOVXB
PF 13-NO\
XX IOVXB
PA (UVXBPA (UVXBPA (NIPRXX WPI; ' 밁 S Matches Query Match Best Local (Kudo J, Shibuya K, 13-NOV-2001; 2001JP-00348050 22-MAY-2003 WO2003042387-A1. hair; keratin-associated protein; KAP; human; keratin; toiletry; therapeutic; hair growth promoter; hair disorder; PCR; primer; s Human hair keratin-associated-protein PCR primer P7 06-MAY-2004 ADJ92226; ADJ92226 standard; DNA; 21 (UYKB-) UNIV KBIO. (NIPR-) JAPAN SOC PROMOTION SCI 13-NOV-2002; 2002WO-JP011851. Homo sapiens. 1179 CAGAGAAAGAGAGAGAGAGA 1198 20 CAGAGAGAGAGAGAGAGA 1 Similarity Conservative (first entry) 90.0%; Shimizu N; BP <u>.</u> Score 16.8; Pred. No. 5. Mismatches 6e+02 DB 1; Length 21; Indels SEQ ID NO:85 0 Gaps

WPI; 2003-493307/46

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RESULT 426
ABD19062/c
ID ABD190
XX ABD190
XX BD190
XX Human;
XW Human;
XW respir
XW respir
XW surfac
XW sanalge
KW semphys
XW emphys
XW emphys
XW gulmon
XX
BU HOMO E
XX
PM W02002
XX
PM 31-OCT
XX
PF 23-APF
XX
PR 24-APF
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local
                                                                                                                                                                                                                                             Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosiane sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory disease; allergic rhinitis; pulmonary hypotrension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes DNAs encoding hair keratin-associated proteins (KAP) of human origin, which bind to hair keratin. Also described: (1) DNA encoding KAPs of mouse origin; (2) proteins encoded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNAs encoding 39 Keratin-associated proteins localized on human chromosome 21, useful for screening binding and expression modias cosmetic and therapeutic agents for hair disorders.
                       24-APR-2001; 2001US-0286036P
                                                                23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                              pulmonary transplantation
                                                                                                                                                                                                                                                                                                                                                                                                                Human histidine decarboxylase DNA fragment 1025.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABD19062;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABD19062 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 3; SEQ ID NO 85; 352pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3935 AGATCAACCCACAGCACAGC 3954
                                                                                                                                                                                      sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCTCAACCCCCAGCACAGC 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
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Pred. No. 5.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (2) proteins encoded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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AAQ25483
ID AAQ25483
AC AAQ254
XX AAQ254
XX AAQ254
XY O7-DEC
XX D7 O7-DEC
XX Target
KW maligr
XX Target

rich

HUMINFAA target duplex sequence.

25-MAR-2003 07-DEC-1992 AAQ25483;

(revised)
(first entry)

AAQ25483 standard; DNA; 22

ВP

Synthetic

malignancy;

inflammation;

Target; human Tumour necrosis factor mRNA; AIDS; triplex; HIV; hepatitis;

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1179 CAGAGAAAGAGAGAGAGAGA 1198

Conservative

0;

Mismatches

0

Gaps

0

90.0%; 0.3%;

Score 16.8; DB 1; Length 21; Pred. No. 5.6e+02;

Query Match
Best Local Similarity
Matches 18; Conserv

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20

CAGAGAGAGAGAGAGA 1

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CC of the invention has antiallergic, antiinflammatory, antiasthmatic, and the invention has antiallergic, and infinity, and asthmatic, activity, is a CC beta-adrenergic agonist. The composition is useful for preventing or cc treating a respiratory, lung or malignant disease. The administered cc composition comprises oligo and is administered to reduce the production cor availability, or to increase the degradation of the target mRNA or to creduce the amount of target polypeptide present in the lungs. The cc pulmonary obstruction, and/or bronchoconstriction and/or lung confilammation, allergies and/or surfactant hypoproduction are associated co with a disease or condition such as pulmonary vasoconstriction, cc inflammation, allergies, asthma, impeded respiration, respiratory cc inflammation, emphysema, chronic obstructive pulmonary disease, pulmonary contents on the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system cc., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nyce Jw
Miller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targe nucleic acids associated with lung airway or lung dysfunction,
Sequence 21 BP; 0 A; 10 C; 1 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention describes a novel composition comprising oligonucleotides, effective for a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bronchoconstriction, respiratory tract inflammation, allergies reducing adenosine sensitivity, levels of adenosine (A) or (A)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (EPIG-) EPIGENESIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Li Y, Sa
Tang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 10404; 763pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sandrasagra A, K
L, Shahabuddin S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Katz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for alleviating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (a) a first active agent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aguilar D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              targeted to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     receptors,
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RESULT 428
AAT76387/c
ID AAT763
XX AAT763
XX AAT763
XX LIN ASTAMA
ASTAMA
ASTAMA
XX ASTAMA
XX Chroni
XX Synthe
ASTAMA
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Best Local Similarity
Matches 18; Conserv
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17-APR-1991;
27-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequence depicts a HUMTNFAA sequence beginning at nucleeotide 1137. The sequence is a viral duplex sequence which contains a purine-rich region concentrated on one chain of the duplex. The sequence may be prepd. by standard DNA synthesis. The HUMTNFAA duplex sequence may be a target for novel oligomers which are capable of forming a triplex at physiological pH by coupling into the major groove of the DNA duplex. Ten sequence. The oligomers are used in the treatment of inflammation. Similar oligomers may be used to target viral DNA duplexes specific for HIV, herpes and other viruses. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also AAQ23452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                              Asthma; airway epithelium; adenosine free; cystic fibrosis; chronic obstructive pulmonary disease; bronchitis; ss.
                                                                                                                                                                                                                                                                                                                                                                               Human tumour necrosis factor alpha antisense oligonucleotide HSTNFAAS6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAT76387;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT76387 standard; DNA; 22 BP
         07-JUN-1995;
                                                               06-JUN-1996;
                                                                                                                        19-DEC-1996.
                                                                                                                                                                                 WO9640162-A1
                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                           15-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22 BP; 11 A; 0 C; 11 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 11; Page 64; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New oligomers contg. modified bases - doublet in a DNA duplex, for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-APR-1991;
17-APR-1991;
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18-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             herpes malignancy and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-JUN-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1181 GAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GGGGAAGAGAGAGAGAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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91US-00686546.
91US-00686547.
91US-00766733.
         95US-00474497
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91US-00643382
                                                               96WO-US009306
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.8, D
Pred. No. 5.7e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Milligan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
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AAXS4536/c
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XX AAXS45
XX ANTise
CW impair
KW impair
KW pulmon
KW coloroni
KW coloroni
KW prosta
XX prosta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A method for treating airway disease in a subject has been produced, which involves the topical administration of an essentially adenosine free antisense oligonucleotide (ON) to the airway epithelium of the subject. The present sequence is an antisense oligonucleotide HSTNFAAS6 specific for the human tumour necrosis factor alpha. The method can be used to treat airway diseases such as cystic fibrosis, asthma, chronic obstructive pulmonary disease, bronchitis and other airway diseases characterised by an inflammatory response. By eliminating adenosine from the antisense ON, its liberation upon antisense degradation is prevented, thereby preventing adenosine-induced bronchoconstriction in patients with hyper-reactive airways
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acute asthma; allergy; asthma; impeded respiration; respiratory distress syndrome; pain; cystic fibrosis; pulmonary hypertension; pulmonary constriction; emphysema; chronic obstructive pulmonary disease; leukemia; lymphoma; carcinoma; colon cancer; breast cancer; lung cancer; pancreatic cancer; hepatocellular carcinoma; kidney cancer; melanoma; hepatic metastasis;
                                                                                                                                                                                           17-SEP-1997;
09-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                        25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prostate cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antisense oligonucleotide; multiple target; antisense treatm impaired respiration; inflammation; lung disease; pulmonary vasoconstriction; inflammation; allergic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human adenosine Al receptor antisense oligonucleotide fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX54536 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 22 BP; 0 A; 11 C; 0 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 5; Page 37; 71pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-051871/05
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                                                                                                                                                                                                                                                                                     17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                    WO9913886-A1
                                                                                                                           (UYEC-) UNIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UYEC-) UNIV EAST CAROLINA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1181 GAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22 GGGGAAGAGAGAGAGAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          h 0.3%;
Similarity 90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                           BAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                           97US-0059160P.
98US-00093972.
                                                                                                                                                                                                                                                                                        98WO-US019419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 16.8;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; DB 1;
5.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antisense treatment;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ç
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WPI; 1999-229400/19

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RESULT 430
AAA33980/c
ID AAA339
XX AAA339
XX AAA339
XX AAA339
XX Low ad
XX Human;
XW phosph
XW phosph
XW allerg
XW allerg
XW lung d
XW respir
XW lung d
XW respir
XW loncer
XX Low ad
XX Low and tale
XX Low ad
XX Low and tale
XX Low and tal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 18; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diseases and conditions. Typical diseases and conditions are those associated with impaired respiration and inflammation, including lung diseases, pulmonary vasoconstriction, inflammation, altergic rhinitis, acute asthma, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, pulmonary hypertension, pulmonary vasoconstriction, emphysema, chronic obstructive pulmonary disease (CODD), and cancers such as leukemias, lymphomas, carcinomas e.g. colon cancer, breast cancer, lung cancer, pancreatic cancer, hepatocellular carcinoma, kidney cancer, melanoma, hepatic metastases, a well as all types of cancers which may metastasize or have metastasized to the limitation of cancers which may metastasize or have metastasized
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The specification describes antisense oligonucleotides (AAX52869-X55271) directed against at least 2 mRNAs selected from target genes, coding and non-coding regions of RNAs corresponding to target genes, gene initiation codons, genemic flanking regions, intron-exon borders, the 5'-end, the 3'-end and the juxta-section between coding and non-coding regions and all segments of RNAs encoding proteins associated with one or more diseases, conditions or mixtures. The antisense oligonucleotides may be derived from sequences AAX55272-74. These multiple target oligonucleotides (specifically AAX55180-271) can be used for the antisense treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothicate; impaired respiration; inflammation; allergy; allergic disease; bronchoconstriction; inhibitor; antiinflammatory; antiinflammatior; cytostatic; analgesic; impaired airway; lung disease; ischaemic condition; pulmonary vasoconstriction; asthma; respiratory distress syndrome; pain; cytetic fibrosis; emphysema; pulmonary hypertension; chronic obstructive pulmonary disease; COPD;
                                   WPI; 2000-205971/18
                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200009525-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA33980 standard; DNA; 22 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22 BP; 0 A; 11 C; 0 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 27; 120pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antigense oligonucleotides used in treatment of, e.g. pulmonary vasoconstriction.
                                                                                                                                                                                                                                                                                                                    03-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Low adenosine antisense oligonucleotide SEQ ID NO:1669.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to the lungs,
                                                                                                                                                                               (UYEC-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1181 GAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
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                                                                                                                                                                               VIND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                               EAST CAROLINA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          including breast and prostate cancer
                                                                                                                                                                                                                                                   98US-0095212P
                                                                                                                                                                                                                                                                                                                    99WO-US017712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lymphoma; carcinoma; metastasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ,
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16.8;
No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Length 22;
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The present invention describes a new composition comprising an antisense CC oligonucleotide (ON) with low adenosine (up to 15%), which targets cnucleic acids involved in bronchoconstriction, allergies, and/or CC inflammation. The ON can have antiinflammatory, antiallergic, antiasthmatic, cytostatic and analgesic activities. The compositions are CC useful for the treatment of diseases associated with inflammation, CC impaired airways, including lung disease and diseases whose secondary CC effects afflict the lungs of a subject. They can be used for treating CC e.g. ischaemic conditions, respiratory vasoconstriction, allergies, asthma, cimpaired airways, pulmonary vasoconstriction, allergies, asthma, CC impeded respiration, respiratory distress syndrome, pain, cystic cy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense oligonucleotides useful for treating e.g. pulmonary vasoconstruction, inflammation, allergies, asthma, hypertension, bronchitis, emphysema, respiratory distress syndrome, ischemia or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 18; Page 472; 1343pp; English.
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밁 Ś Matches Query Match Best Local Sequence 1181 GAGAAAGAGAGAGAGAAA 1200 18; Similarity 22 GGGGAAGAGAGAGAAA 3 BP; 0 A; Conservative 0.3%; 11 C; 0 <u>;</u> Score 16.8; Pred. No. 5. G; 11 Mismatches Ħ, 0 U; .7e+02; 멂 0 Other; 1; Length 22; Indels 0 Gaps

0

AAF20102 standard; DNA; 22

AAF20102; 14-MAR-2001 (first entry)

Human tumour necrosis factor alpha polynucleotide fragment #1669

ARESULT 431
AAF20102/c
ID AAF2010
XX AAF201
XX AAF201
XX Low ac
KW Low ac
KW human
XX Low ac
KW human;
KW surfac
KW respin
KW respin
KW respin
KW respin
KW crespin
KW crespin
KW crespin
KW crespin
KW crespin
KW cancel
XX Down
XX CACCEL
XX CACCEL
XX CACCEL
XX WO2000
XX PD 26-OC;
XX Y human; airway disorder; bronchoconstriction; lung inflammation; surfactant depletion; respiratory; bronchodilator; antiinflammatory; immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic; respiratory obstruction; pulmonary obstruction; impeded respiration; surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS; respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis; pulmonary hypertension; emphysema; pulmonary transplantation rejection; pulmonary hypertension; emphysema; pulmonary transplantation rejection; chronic ow adenosine antisense oligonucleotide; phosphorothicate; allergy; 88. obstructive pulmonary disease; pulmonary infection; bronchitis,

WO200062736-A2

26-OCT-2000

24-MAR-2000; 2000WO-US008020.

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RESULT 432
ACC8548H/C
ID ACC854
XX
ACC865
XX
ACC866
XX
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.

CC The antisense oligonucleotides and (I) can be used to down-regulate the cc expression and or activity of target polypeptides associated with cc lung/respiratory disorders and malignancies, such as stimulating and activating peptide factors and transmitters, transcription factors, communoglobulins and antibodies, antibody receptors, cytokines and cc chemokines, endogenously produced specific and non-specific enzymes, communoglobulins adhesion molecules and their receptors, cytokines and chemokine receptors, adhesion molecules and their receptors, cytokine and concine receptors, binding proteins and malignancy associated proteins. The antisense oligonucleotides may be used in this way to treat disorders including respiratory obstruction (especially pulmonary obstruction and/or lung inflammation, allergy(les) and/or sonchiton selected from pulmonary vasoconstriction, inflammation, condition selected from pulmonary vasoconstriction, inflammation, callergies, asthma, impeded respiration, respiration, inflammation, pulmonary disease or condition selected from pulmonary vasoconstriction, inflammation, conspiration, constriction, pulmonary disease (COPD), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary condities, and/or cancer. AAP18434 to AAP21543 represent human polynucleotide condition of the present human polynucleotide condition of the present human polynucleotide conditions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACC85488 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 22 BP; 0 A; 11 C; 0 G; 11 T; 0 U; 0 Other;
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                                        WO2003054233-A1
                                                                                                         Homo sapiens
                                                                                                                                                                       Late PCR; polymerase chain reaction; human; CFTR; HEX-A; limiting primer; excess primer; PCR; primer; ss.
                                                                                                                                                                                                                                                                                Human HEX-A gene PCR primer SEQ ID NO: 3.
                                                                                                                                                                                                                                                                                                                                                     29-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-679539/66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1181 GAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGGAAGAGAGAGAGAAA 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention
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J W.
                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 16.8; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     In the antisense
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RESULT 433
ABZ95796/c
ID ABZ957
XX ABZ9577
XX ABZ957
XX T7-OCT
XX T7-OCT
XX Human
XX Human
XX Human
XX Human
XX ABZ957
XX ABZ9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
                               Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a method of non-symmetric polymerase chain reaction (PCR) amplification, comprising thermally cycling a PCR reaction mixture containing a DNA amplification target sequence, a pair of PCR primers, dNTP's and thermostable polymerase repeatedly through PCR steps of strand melting, primer annealing, and primer extension. The method is useful for amplifying stretches of DNA, including cDNA reverse transcribed from RNA, for assays, for diagnostics and other purposes. The present sequence is a primer used to demonstrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                24-APR-2001; 2001US-0286137P
                                                                                                                                                                                                                                        23-APR-2002; 2002WO-US013135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human tumour necrosis factor antisense fragment no.1660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABZ95796 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22 BP; 0 A; 11 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 66; 125pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          thermostable polymerase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wangh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-DEC-2001; 2001US-0341886P.
17-DEC-2002; 2002US-00320893.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-DEC-2002; 2002WO-US040752.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (UYBR-) UNIV BRANDEIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 inflammation; respiratory disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        909 CCAGGGCTCAGAGAGAAGGG 928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ę
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18;
                                                                                                                         EPIGENESIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAGGGGGCAGAGAGAAGGG
                               Li Y,
Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pierce K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                               Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.8; DB 1.
Pred. No. 5.7e+02
                                     တ
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                                                              Katz B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rice J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                 Pabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sanchez JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 22;
                                                              Aguilar
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Miller S,

Shahabuddin

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RESULT 434
ABD19536/c
ID ABD195
XX ABD195
XX ABD195
XX Human
XX Human,
XW Human,
XW respir
XW respir
XW surfac
XW sanalge
KW respir
XW beta-a-a
KW respir
XW beta-a-a
KW respir
XW beta-a-a
XW mulmor
XX Homo &
XX Homo 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel pharmaceutical composition, which has a CC first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC antiinflammatory steroid in a subject, for reducing or depleting levels of of, or reducing sensitivity to adenosine, reducing levels of ubiquinone or CC lung surfactant in a subject, tissue, or treating bronchoconstriction. CC lung inflammation, lung allergies, or a respiratory disease or condition. CC lung inflammation, but was obtained in electronic format directly from WIPO CC at fig. wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 18; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human tumour necrosis factor DNA fragment 1660.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                 24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                  23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                   WO200285309-A2
                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              pulmonary transplantation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABD19536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABD19536 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; SEQ ID NO 11038; 872pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ubiquinone
                                                                    (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1181 GAGAAAGAGAGAGAGAAA 1200
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
Sandrasagra A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              쁌
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.8;
Pred. No. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
   Katz
'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .7e+02
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   Pabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2;
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Aguilar
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Comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating componenconstriction, respiratory tract inflammation, allergies and creducing adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating considered with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. Construction of a target polypeptide associated with lung airway or lung constructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analysis, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The complexity polypeptide present in the lungs. The confidency of inflammation, and/or bronchoconstriction and/or lung conflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, pulmonary vasoconstriction, and/or lung present in the lungs. The confidency pain, cystic fibrosis, allergic rhinitis, pulmonary transglantation rejection, pulmonary infections, bronchitis or cancer. CC the oligonucleotides into products that free adenosine into the breakdown of the many brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID
BP; 0 A; 11 C; 0 G; 11 T;
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  0 U; 0 Other;
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RESULT 435
AAA29753/c
UX SX FX GX BX SX SX FF FF F
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                    AAA29753;
                                                          Synthetic
                                                                            purification;
                                                                                        Primer; destabilise non-specific duplex formation; PCR; detection;
                                                                                                          Synthetic oligonucleotide #1.
                                                                                                                                15-AUG-2000
                                                                                                                                                                       AAA29753
                          modified_base
                                                                                                                                                                                                                                              1181 GAGAAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                           22
                                                                                                                                                                       standard; DNA;
                                                                                                                                                                                                                            GGGGAAGAGAGAGAGAAA 3
                                                                                                                                                                                                                                                                  Conservative
                                                                                                                               (first entry)
                                                                            sequencing; genetic marker; RACE;
                           Location/Qualifiers
       /mod_base= i
                  /*tag= a
                                                                                                                                                                                                                                                                           0.3%; Score 16.8; DB 1; Length 22; 90.0%; Pred. No. 5.7e+02;
                                                                                                                                                                          ВÞ
                                                                                                                                                                                                                                                                  0; Mismatches
                                                                            DNA synthesis;
                                                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                                                 Gaps
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ARESULT 436
AAC83384
ID AAC833
XX AC833
XX Primer
XX Primer
XX Primer
XX Uniden
XX W02000
XX W29-NOV
XX PP 28-APR
XX PR 28-APR
XX
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                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention describes a method for destabilising non-specific duplex formation, between an oligonucleotide and a target nucleic acid (NA), comprising incubating the target NA with a modified oligonucleotide (I) comprising incubating the target NA with a modification which decreases or abrogates H-bonding between the modified oligonucleotide and the non-specific target NA. The modified oligonucleotide is used to improve discrimination between the targeted homopolymeric sequence and a non-homopolymeric target sequence. It is used to increase the proportion of full length cDNA clones for a library, to reduce mispriming during sequencing, 5' or 3' RACE (rapid amplification of cDNA ends) or DNA synthesis or to generate bona fide genetic markers. The present sequence represents an oligonucleotide which is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel method of stabilizing duplex formation, or destabilizing non-
specific duplex formation using primer containing modified nucleotide
analogs, useful for preventing mispriming during PCR, RACE, DNA synthesis
                                                                                                                          Unidentified
                                                                                                                                                                                Primer -CS
                                                                                                                                                                                                           26-FEB-2001
                                                                                                                                                                                                                                     AAC83384;
                                                                                                                                                                                                                                                                 AAC83384 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23 BP; 0 A; 0 C; 0 G; 21 T; 0 U; 2 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-OCT-1998;
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               28-APR-1999;
                                        28-APR-2000; 2000WO-GB001639
                                                                                                WO200066774-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-APR-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequencing.
                                                                                                                                                                                                                                                                                                                                                                5394 AMAMAATACAAMAAAGAAAAAA 5415
                                                                                                                                                                                                                                                                                                                                      23
                                                                                                                                                                                                                                                                                                                                                                                            18,
                                                                                                                                                      virus;
                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                      AAAAANAAAAAAAAAAA 2
                                                                                                                                                                                 (outer).
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                          (first
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                                                                                                                                                   drug
               99GB-00009793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98CA-02246623
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                                                                                                                                                      resistance; ss.
                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
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                                                                                                                                                                                                                                                                  24 BP
                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                         Score 16.8;
Pred. No. 5.
                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length .7e+02;
                                                                                                                                                                                                                                                                                                                                                                                             Indels
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RESULT 437
ABQ82590/c
ID ABQ825
XX Human;
XX Human;
XX Human;
XX Homo s
XX CN1352
XX CN1352
XX CN1352
XX CN1352
XX HOMO s
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XX (BODE-
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XX WPI; 1
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CC The pi
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to detecting viruses resistant to antiviral drugs. The invention involves recombination of a DNA vector encoding a modified virus with nucleotide sequences from virus samples
                                                                The present invention describes human carbamylaspartic dehydrase 9.46 (I). Also described is a DNA recombination process used to produce (I) (I) can be used in the treatment of various diseases, such as malignan tumours, haemopathy, HIV infection, immunological diseases and various inflammations. The present sequence represents a PCR primer for (I),
                                                                                                                                                                                                   Example 2; Page 16 (Disclosure); 33pp; Chinese.
                                                                                                                                                                                                                                          New polypeptide-human carbamylaspartic dehydrase encoding the polypeptide.
                                                                                                                                                                                                                                                                                                                                                        мао у,
                                                                                                                                                                                                                                                                                                                                                                                                                                               02-NOV-2000; 2000CN-00127141.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-NOV-2000; 2000CN-00127141.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CN1352301-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; carbamylaspartic dehydrase 9.46; enzyme; malignant tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human carbamylaspartic dehydrase 9.46 PCR primer 2 SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABQ82590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABQ82590 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 24 BP; 8 A; 10 C; 6 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             suspected of being drug-resistant, to produce recombinant viruses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 13; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       with a sequence of virus sample suspected of including drug-resistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Assay for detecting viruses resistant to anti-viral drugs by recombination of DNA vector comprising a wild type virus strain genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Blair ED,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       naemopathy; HIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1261 AGCCTACAGCCCCACCA 1280
                                                                                                                                                                                                                                                                                                              2002-644473/70.
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                                                                                                                                                                                                                                                                                                                                                          Xie
                                                                                                                                                                                                                                                                                                                                                                                                   BODE GENE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Robinson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           infection;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immunological disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
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Pred. No. 5.
                                                                                                                                                                                                                                                                                                                                                                                                      SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ມ8 1;
5.7e+02;
ຈອ
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                                                                                                                                                                                                                                                                   polynucleotide
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                                                                                                                  as malignant
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Sequence

24

BP; 11

A.

G

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1 H

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0 Other;

which is used in an example from the

present invention

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RESULT 439
ACC85493/c
ID ACC854
XX
AC ACC854
XX
DT 29-SEP
XX
DE Human
XX
KW Late F
KW exces8
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ABQ79142/c
ID ABQ791
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Best Local :
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 Late PCR; polymerase chain reaction; human; excess primer; PCR; primer; ss.
                                                                                                                                                                                                                                                               Sequence 24 BP; 4 A; 1 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                    This invention relates to a novel polypeptide-human eukaryotic initial factor -2 (elf-2)-associated protein 74.14 and the application of the polypeptide in treating diseases such as tumours, virus infection abnormalities and development disorders. The present sequence represents a primer related to the novel human eukaryotic initial factor -2 (elf-2)-associated protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; eukaryotic initial factor -2; (elF-2); tumour; virus infection; development disorder; PCR; primer; ss.
                                   Human CFTR gene PCR primer SEQ ID NO:
                                                            29-SEP-2003
                                                                                   ACC85493
                                                                                                          ACC85493 standard;
                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                                                                                                                                                                                                                                                                                                                                         Polypeptide-human eukaryotic initiation factor-2 (eIF-2)-associated protein 74.14 and polynucleotide encoding it.
                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-436441/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-MAR-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABQ79142;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABQ79142 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Primer #2 related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (BODE-)
                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                         5406 AAAGAAAAATGAAAATAAA 5425
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                                                                                                                                                                   AAATAAAAAATAAAAATAAA 1
                                                                                                                                                                                                                                                                                                                                                                   Page 18 (Disclosure); 36pp; Chinese.
                                                                                                                                                                                                                 Conservative
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                                                                                                         DNA;
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                                                          entry)
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                                                                                                         ВP
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                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                          Score 16.8; DB 1;
Pred. No. 5.7e+02;
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Pred. No. 5
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                                                                                                                                                                                                                                       DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
            CFTR; HEX-A; limiting primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2
                                                                                                                                                                                                                                      Length 24;
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                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                                0,
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WO2003070897-A2

sapiens

HIV/AIDS;

psoriasis; inflammation; autoimmune disease; target sequence.

DNA-RNA hybrid;

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RESULT 440
ADG35077/c
ID ADG350
XX ADG350
XX ADG350
XX ADG350
XX Human
XX Human
XX RNA in
KW RNA in
KW Short
KW SYnthe
OS Homo E
XX
PN W02003
XX
PD 28-AUC
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Best Local S
Matches 18
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                                                                                                                                                           RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; tumour necrosis factor receptor; TNF receptor; human; DNA-RNA hybrid antibacterial; immunosuppressive; antirheumatic; antiarthritic; antiantipsoriatic; antiinflammatory; septic shock; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Non-symmetric polymerase chain reaction amplification, useful for amplifying DNA by thermally cycling a PCR reaction mixture containing DNA amplification target sequence, a pair of PCR primers, dNTP's and
                                                                                                                                                                                                                                                                                                                            Human TNF receptor siNA oligonucleotide SEQ ID NO:429.
                                                                                                                                                                                                                                                                                                                                                                   26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG35077
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
                                                                                                                                                                                                                                                                                                                                                                                                       ADG35077;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-DEC-2001; 2001US-0341886P.
17-DEC-2002; 2002US-00320893.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               thermostable polymerase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAGGGGGCAGAGAGAAGGG 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP; 0 A; 13 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                         RNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 16.8; DB 1;
Pred. No. 5.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 24;
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SSXEXEXEXEX SX
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ADK97129/c
ID ADK97129 standard; DNA; 23 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human tumour necrosis factor (TNP) CC receptor gene by RNA interference. The siNAs may or may not comprise CC ribonucleotides and may be double or single stranded. They further comprise ense ense and antisense regions, or alternatively are assembled from CC a sense oligonucleotide and an antisense oligonucleotide. Specifically, CC micro-RNA (miRNA) and short interfering RNA (siRNA), double-stranded RNA, CC micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be CC unmodified or chemically synthesised, expressed from a vector or enzymatically conjugates and or contain decoxyribonucleotides, and CC synthesised. The invention also relates to kits for the in vitro or in convivo delivery of siNA, conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the TNF complexes of the transplants for the treatment of a converted of conditions. The TNF receptor siNAs have antibacterial, cc immunosuppressive, antirheumatic, antiarthritic, anti-HIV, antipsoriatic cand anti-inflammatory activities. They may be used for treating septic shock, rheumatoid arthritis, HIV/AIDS, psoriasis, inflammation and cc diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping cc engineering nucleotide polymorphisms). The present sequence
                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 19; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-036314P.
06-JUN-2002; 2002US-036782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409293P.
28-NOV-2002; 2002US-0429359P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 23 BP; 4 A; 6 C; 4 G; 0 T; 9 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New short interfering nucleic acid, useful e.g. for diagnosis of septic shock or rheumatoid arthritis, expression of the tumor necrosis factor gene.
                                                 human; single nucleotide polymorphism; SNP; ss; primer
                                                                                     Primer of
                                                                                                                       06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-697609/66.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                4317 CTGCTATCGAAGCCCTGGAGAAG 4339
                                                                                                                                                                                                                                                                                         23
                                                                                     the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 429; 141pp; English.
                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003WO-US004741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beigelman
                                                                                   invention #2849.
                                                                                                                                                                                                                                                                                                                                                                                82.6%;
                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                              Score 16.6; DB 1;
Pred. No. 6.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                               DB 1; Length
                                                                                                                                                                                                                                                                                                                                                               4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for treatment and
is, downregulates
                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 442
AAV21969/c
ID AAV219
XX AAV219
XX Nuclea
XX Nuclea
XX Nuclea
XX Veteri
KW Veteri
KW Veteri
KW Veteri
XX WO9803
XX C9-JAN
XX 23-JUL
XX (OLIG-
XX (OLIG-
XX WIFF
PR 24-JUL
XX (OLIG-
XX (OL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
west Local Similarity 82.6%;
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a polynucleotide isolated from a human gene and is useful for detecting a single nucleotide polymorphism in a human gene or for diagnosing of disease. The invention enables the detection of a single nucleotide polymorphism in a human gene. The present sequence represents a primer of the invention.
                                                                                                                  Treating bacterial infections in humans or animals with oligo:nucleotide(s) - resistant to nuclease and targetted to bacterial nucleic acid or proteins, also conjugates of these oligo:nucleotide(s) with antibiotics.
                                                                                                                                                                                                                                                                WPI; 1998-120687/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                             24-JUL-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JAN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO9803533-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   veterinary medicine; treatment; human; industrial bacterial control; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nuclease resistant; bacterial infection; antibiotic; target;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nuclease resistant antisense oligo NBT 142 targeted against
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV21969 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 23 BP; 7 A; 4 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2; SEQ ID NO 6158; 2627pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel polynucleotide useful for PCR amplification along with two DNA fragment from another set of sequences, or for detecting single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR-2002; 2002JP-00064373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JP2003259875-A.
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                                                                                                                                                                                                                                                                                                                                                                                   (OLIG-) OLIGOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2662 CACTCTCTGGAGTCCCTCCACTG 2684
                                                                                                                                                                                                                                                                                                                       þ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTCTGTCTGCAGTCACTCCACTG 1
                                                                                                                                                                                                                                                                                                                    Dale RMK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            another set of sequences, lymorphism in human gene.
                                                                                                                                                                                                                                                                                                                                                                                   ETC & OLIGOS THERAPEUTICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                             96US-00685575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97WO-US012961.
                                                                                                                                                                                                                                                                                                                       Thompson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.6; DB 1
Pred. No. 6.1e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detecting single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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This antisense oligonucleotide is nuclease resistant and can be used in

Claim 49; Page 87; 163pp; English.

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RESULT 443
AAX91065/c
ID AAX910
XX AAX910
XX AAX910
XX Phosph
XW Phosph
XW Dindin
XX Synthe
XX US5955
XX US5955
XX US5955
XX I6-NON
PR 21-SEF
XX 21-NON
XX GENT-
XX GENT-
XX Schwal
XX FOR WPI;
PT Oligor
PT Coligor
PT The 1
CC Inter
CC Inter
CC Inter
CC Inter
CC pure
CC pure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
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target RNA sequence. The method of maximy compensation internucleo nucleoside dimer, trimer, or tetramer with racemic internucleo nucleoside dimer, trimer, or tetramer with racemic internucleo nucleoside to phosphonate linkages; (b) purifying the racemic nucleoside to pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside; and (c) sequentially linking at least 2 of the pure nucleoside.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                method is used to treat infections by a wide variety of Gram-positive and Gram-negative, or acid-fast, bacteria, in human and veterinary medicine. The methods are particularly used in immuno-compromised individuals (e.g. patients with acquired immunodeficiency syndrome or those receiving chemotherapy or radiation therapy), optionally in combination with, or fused to, antiviral or other antimicrobial oligonucleotides. Apart from therapeutic use, the oligonucleotides can be used to control bacteria in laboratory cultures, foods, beverages and industrial processes. The oligonucleotides are specific for bacteria, without affecting metabolism in mammalian cells. They may also activate NNase H and have a general, non-specific immune-stimulating effect. The oligonucleotides can be administered orally, intranasally, rectally, topically or by injection, optionally coupled to an agent (e.g. carbohydrate or polyamine) that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-NOV-1993;
21-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and formulated with a carrier. A compound comprising this nuclease resistant oligonucleotide can be covalently linked to an antibiotic. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and formulated with a carrier.
                                                                                                                                                                                                                                                                                                                           WPI; 1999-539600/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US5955597-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           binding affinity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Phosphonate internucleosidyl linkage; chirality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAT gene target RNA fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX91065
                                                                                                                                                                                                                                                                                                                                                                                                                      (GENT-) GENTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
nes 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              treatment of animals, including humans, having a bacterial infection. treatment comprises administration of such nuclease resistant gonucleotides, targeted to a nucleic acid or protein of the bacterium,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                          DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGAAAGAGAGAGAGAGA 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGAGAGAGAGAGAGA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cellular uptake
                                                                                                                                                                                                                                                  made using chirally pure nucleoside dimers, trimers, with enhanced binding affinities.
                                                                                                                                                                                                        Col 41-42; 30pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                    provides methods
dyl linkages of a
                                                                                                                                                                                                                                                                                                                                                                                                                        INC.
                                                                                                                                                                                                                                                                                                                                                                     Vaghefi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    93US-00154013
94US-00343018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97US-00885126.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 9 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                     The method of making comprises: (a) synthesiz imer, or tetramer with racemic internucleosidy
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                                                                                                                                                                                                                                                                                                                                                                          Riley TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 9 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score
                                                                                                         for preparing oligomers having phosphonate preselected chirality which hybridize to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16.4; DB 1;
No. 6.3e+02;
                                                                                                                                                                                                                                                                                                                                                                          Arnold LJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hybridization;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                          Reynolds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18;
                                         of the
                                                                                                                                                                                                                                                                                                                                                                          Æ,
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                                       he chirally
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        racemic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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RESULT 444
ADJ7031
ID ADJ703
AC ADJ7
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phosphonate internucleosidyl linkages of a preselected chirali complementary to an RNA target sequence. The methods are usefu providing chirally enriched synthetic oligomers. Rp chirally e synthetic oligomers have enhanced binding affinities for RNA c oligomers with racemic all methylphosphonate internucleosidyl Sequences AAXS1054-75 represent oligomers chemically synthesis the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; allergy; type II hypersensitivity; leprosy; infectious disease; viral infection; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 18
                                                                                                                                                                                                                                                                 Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comprnucleic acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human Vbeta gene repeat sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADH70321
                                                                                                                                                                                                                                                                                                                                                                                                                               Hood LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ROWE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HOOD L E.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ROWEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGAGAAAGAGAGAGAG 1197
                                                                                                                                                                                                                                                                                                                                                                                                                               Rowen L;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94US-00309335.
95US-00531241.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G; 0
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.4;
Pred. No. 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lymphoma; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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l linkages.
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associated diseases which comprises a panel of nucleic acid primers specifically priming and allowing amplification of each Vbeta gene, VbetaRNA or CDNA. The kit is useful for diagnosing organ transplant rejection and diagnosing and treating T-cell associated diseases

autoimmune

diseases,

The invention relates to a kit for diagnosing and treating

T-cell

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515; 164pp;

English.

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RESULT 445
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ADH70679
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Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infections disease; neoplastic disease; Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; Alzheimer's system disease; type II hypersensitivity; leprosy; infectious disease; viral infection; type IV hypersensitivity; leprosy; infectious disease; viral infection; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                  Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, compuncted acid primers specifically priming and allowing amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-SEP-1994;
19-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Vbeta gene repeat sequence #469.
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                                                                                                                                                                                                                                                     WPI, 2004-059052/06
                                                                                                                                                                                                                                                                                                                       Hood LE, Rowen L;
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                                                                                                                                                                                                                                                                                                                                                                                             (HOOD/) HOOD L E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .ymphoproliferative disease; leukaemia; lymphoma; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1180 AGAGAAAGAGAGAGAGAG 1197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      leukaemias, lymphomas and cancers such as cancer of the brain The present sequence represents a Vbeta gene repeat sequence.
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95US-00531241.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>.</u>
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Pred. No. 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 brain cancer;
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Disclosure; SEQ ID

NO 873; 164pp; English

Primers AAV30470-V30490 were used for sequencing the coding region of the canine beta 3-adrenergic receptor (RA-Ca-b3) gene (AAV30469). RA-Ca-b3 has been implicated in obesity and obesity-related metabolic disorders e.g. diabetes. The canine version of RA-Ca-b3 can be used to develop

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC associated diseases which comprises a panel of nucleic acid primers
CC specifically priming and allowing amplification of each Vbeta gene,
CC VbetaRNA or cDNA. The kit is useful for diagnosing organ transplant
CC rejection and diagnosing and treating T-cell associated diseases
CC including autoimmune diseases, degenerative nervous system diseases,
CC graft versus host disease, hypersensitivity diseases, infectious diseases
CC and neoplastic diseases. Autoimmune diseases include Addison's diseases,
CC artophic gastritis. Degenerative nervous system diseases include multiple
CC altrophic gastritis such as contact with allergens that lead to
CC clerosis and Alzheimer's disease. Hypersensitivity diseases include Type
CC I hypersensitivities such as contact with allergens that lead to
CC callergies, Type II hypersensitivities such as those present in
CC Goodpasture's syndrome and Type IV hypersensitivities such as those caused by
CC caused by viruses such as HIV, fungal infections such as those caused by
CC the yeast genus Candida, parasitic infections such as those caused by
CC schietosomes, filaria and bacterial infections such as those caused by
CC such as leukaemias, lymphomas and cancers such as cancer of the brain,
CC breast. The present sequence represents a Vbeta gene repeat sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                                             Canine beta 2 and beta 3 adrenergic receptors useful for identifying specific ligands and (specific treatments for obesity in dogs.
                                                                                                                                                                           WPI; 1998-032136/03.
                                                                                                                                                                                                                                                                        26-MAR-1996;
                                                                                                                                                                                                                                                                                                      26-MAR-1997;
                                                                                                                                                                                                                                                                                                                                   02-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Canine; beta-adrenergic receptor; brown adipose tissue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Canine beta-3 adrenergic receptor sense primer RT28.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-OCT-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 18 BP; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a kit for diagnosing and treating associated diseases which comprises a panel of nucleic act
                                                                                                                                                                                                         Lenzen G,
                                                                                                                                                                                                                                                                                                                                                                    WO9735973-A2
                                                                                                                                                                                                                                          (VETI-) VETIGEN.
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17; Conserv
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                                                                                                                                                                                                           Pietri-Rouxel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                       97WO-FR000537
                                                                                                                                                                                                                                                                                                                                                                                                                                                ligand;
                                                                                                                                                                                                                                                                        96FR-00003730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; 0 C; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  primer; as
                                                                                                                                                                                                           Έ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     G; 0 T; 0 U; 0 Other;
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Pred.
                                                                                                                                                                                                         Drumare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16.4; DB 1;
No. 6.3e+02;
                                                                                                                                                                                                         3
                                                                                                                                                                                                           Strosberg
                                                                                                                             s and coding sequences -
(ant)agonists to develop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                           B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probe; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              T-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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RESULT 447
AAH45567/c
ID AAH455
XX AAH455
XX AAH455
XX PER PX
PER PX
XX JP2001
XX WPI; ;
XX WPI; ;
XX PER SOLUTION
PT PER SOLUTION
PT UNSED JET VALUE
PT UNSED JET VALU
RESULT 448
ABA82228/c
ID ABA822
XX
AC ABA822
XX
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                Best Loc
Matches
                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to a peroxidase derived from a Paraquat resistant callus. Included in the invention are the gene encoding the peroxidase, a vector containing the gene, and a method for the preparation of the peroxidase. The gene is useful for the development of a plant highly resistant against active oxygen which is formed under various environmental stress conditions. This sequence represents a PCR primer used in the isolation of peroxidase related DNA fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treatments specific for dogs. The sequence can also be used in differential screening for ligands for RA-Ca-b3 as compared to the beta-2 adrenergic receptor (AAW44932)
                            ABA82228;
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JP2001095585-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peroxidase; active oxygen resistance; transgenic environmental stress; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAH45567 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 19
                                                                            ABA82228 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 20; 23pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Peroxidase derived from Paraquat-resistant callus, and gene encoding used for the development of plants resistant to active oxygen formed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity nes 17; Conserv
                                                                                                                                                                                                                                                                                                                            Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N
                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                          AGTATCGAGAGCAGCTGA 4558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCAGCAGCTGAAGTACC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCAGCAGCTGAAGTATC 4818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    related
                                                                                                                                                                                                                                                                                                                                                                                               BP; 4 A; 7 C; 3 G; 5 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                       94.4%;
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Pred.
                                                                                                                                                                                                                                                                                                                                              Score 16.4;
                                                                                                                                                                                                                                                                                                                            Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    encoding DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16.4; L-
No. 6.3e+02;
                                                                                                                                                                                                                                                                                                                            No.
                                                                                                                                                                                                                                                                                                                          6.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                 0 Other;
                                                                                                                                                                                                                                                                                                                                                   DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                              Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                   Indels
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RESULT 449
ABK23025/c
ID ABK2300
XX
AC ABK230
XX
DT 09-APR
DX Human
DE Human
XX
Huma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                              Human; mouse; Zmax1; HBM; high bone mass gene; lipid regulation; stroke; lipid-associated condition; arteriosclerosis; cardiovascular disease; ss; osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque build-up; neurovascular condition; wound healing; gene therapy; PCR primer; probe; bone development disorder; antiarteriosclerotic; cardiovascular;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes the human Zmax1 gene and the high bone mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM genes have osteopathic activities. The genes can be used in gene therapy, antisense therapy and in the production of vaccines. They can be used in the diagnosis and treatment of bone disorders including osteoporosis, Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia. ABA82038 to ABA82700 and AAG68168 to AAG68193 represent sequences used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; high bone mass; HBM gene; Zmaxl gene; chromosome 11; 11413.3; sequence tagged site; STS; osteoporosis; osteopathic; gene therapy; antisense therapy; vaccine; bone disorder; Paget's disease; adapter; sclerostosis; osteomalacia; fibrous dysplasia; PCR primer; linker; si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New high bone mass (HBM) and modulating bone mass for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-APR-2000;
05-APR-2000;
                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                 Human Zmax1
                                                                                                                                                                                                                                                                                                                                                                                           09-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABK23025;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK23025
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-OCT-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the exemplification of the present invention
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                                                                                                                                       osteopathic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3924
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTTCCTGGGTGAGATCAA 3941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTTCCTGGGCGAGATCAA 2
                                                                                                                                                                                                                                                                                                                                    cDNA forward PCR primer #94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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2000US-00544398.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    map preparation STS marker #187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 16.4; DI
Pred. No. 6.3e.
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               treatment of e.g. osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zmax1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         genes and proteins useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Johnson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6.3e+02;
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WO200192891-A2

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RESULT 450
ACC45608/c
ID ACC456
XX ACC456
XX O2-JUN
XX Human
XX Human
XX Human;
KW Gene t
KW Gene t
KW bone s
XX Done s
XX Homo s
XX Hom
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method for identifying a molecule involved in lipid regulation comprising identifying a molecule that binds to or inhibits binding of a molecule to high bone mass (HBM) or its wild type gene, Zmax1. Compounds identified by the method are useful for treating, diagnosing, preventing or screening for normal and abnormal lipid-associated conditions, including arteriosclerosis, cardiovascular disease, stroke, and osteoporosis. The compounds may also be used in the treatment or prevention of diabetic atherosclerosis, neurovascular conditions caused by plaque build-up, poor circulation due to plaque build-up and associated poor wound healing. The methods may be used in gene therapy, pharmaceutical development, and diagnostic assays for bone development disorders. Molecules identified by comparison of Zmax1 and the conditions caused by comparison of Zmax1 and conditions caused by comparison of Zmax1 and conditions caused by comparison of Zmax1 and conditions caused to the conditions caused by comparison of Zmax1 and conditions caused to the conditions caused to the conditions caused to the conditions caused to plaque build-up, poor circulation due to plaque build-up, poor circulation due to plaque build-up and associated poor wound healing. The methods may be used in the conditions caused by plaque to plaque build-up, poor circulation and the conditions caused to plaque build-up.
                                                                                                                                                                                                                                                                                                                                                                            Human; high bone mass; HBM; LRP5; LRP6; transgenic; bone mass modulation; gene therapy; bone density modulation; bone strength; trabecular number; bone size; bone tissue connectivity; bone disease; osteoporosis; PCR; osteomalacia; rickets; Paget's disease; neoplasm of the bone; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HBM systems can be used as surrogate markers in pharmaceutical development, in diagnosis of human or animal bone disease, and in the treatment of bone diseases. Sequences ABK22776-ABK23411 represent cDNA molecules encoding human Zmaxi and HBM, and PCR primers, probes, linkers and adapters of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying molecules involved in lipid regulation, useful for diagnosing, treating or preventing e.g., arteriosclerosis, comprises identifying a molecule that binds to high bone mass gene or its corresponding wild type gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human HBM STS marker forward primer #94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-JUN-2003
   11-MAY-2001; 2001US-0290071P
                                                                             13-MAY-2002; 2002WO-US014876
                                                                                                                                                                                                                                WO200292764-A2
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                                                                                                                                                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CREIGHTON SCHOOL MEDICINE
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ABZ22886

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to novel transgenic animals expressing the high CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene, CC comprising an alteration of the gene encoding LRP5 or LRP6, or expressing CC an LRP5 that is modulated by an altered gene control sequence introduced by homologous or non-homologous recombination. The transgenic animals are CC for the study of bone density modulation or bone mass modulation. The CC invention has osteopathic and cytostatic activity. The polynucleotides of the invention may have a use in gene therapy. The transgenic animals and cytostatic activity modulation, where the species in more than one parameter selected from bone density, bone especies in more than one parameter selected from bone density, bone cytostes in more than one parameter selected from bone density, bone compositions, which may be employed for treating or preventing bone compositions, which may be employed for treating or preventing bone conspolations, which may be employed for treating or preventing bone consecutions of the bone. The transgenic animals and nucleic acids are also useful in methods for diagnosing diseases involved in bone development, cor characterised by reduced bone density or mass. The present sequence is used in the exemplification of the invention
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Best Local S
Matches 17
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01-FEB-2002; 2002US-0353058P.
04-MAR-2002; 2002US-0361293P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Oligonucleotide kh2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New transgenic animals (e.g. mice), useful as models for studying bone density modulation, developing drugs for treating or preventing bone diseases (e.g. osteoporosis), or diagnosing diseases characterized by reduced bone density.
                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                               Phosphorothioate; locked nucleic acid; LNA; immunostimulatory; cytostatic; antimicrobial; gene therapy; pathogenic infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-APR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABZ22886;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Babij P,
      WO2002102825-A2.
                                                                                                                                                            modified_base
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                                                             /*tag= a
/mod_base= OTHER
/note= "5'-terminally modified by fluorescein"
                                                                                                                                                                                              Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                               gene therapy; pathogenic infection;
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Pred. No. 6.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                     cancer;
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RESULT 452
ADB98306/c
ID ADB983
XX ADB983
XX ADB983
XX O4-DEC
XX Sequen
XX OSteop
KW Osne m
XX OSCOO
E
DO 21-NOL
XX 21-MAL
PR 11-MAL
PR 11-MAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC comprising an oligonuclectide having at least one locked nucleic acid (C based on a functional moiety. Also described: (1) a complex (II) (C comprising (I) and a DNA sequence having a complementary sequence to the CC comprising (I) and a DNA sequence having a complementary sequence to the cligonuclectide, and encoding a gene under the control of a promoter; (2) (C a pharmaceutical composition (III) comprising (II) and a carrier or CC diluent; (3) a device loaded with (III); and (4) an oligonuclectide (IV) (C comprising a first region comprising an oligonuclectide sequence having (C at least one LNA, and a second region comprising an immunostimulatory (C) oligonuclectide region containing at least one unmethylated CG di-cuclectide motif. (I) has cytostatic and antimicrobial activities, and (C can be used in gene therapy. (I) and (II) can be used in medicine, and in (C can be used in frections or cancer. (I) is useful for the preparation of (C pathogenic infections or cancer. (I) is useful for the preparation of (C (III), by hybridising (I) with a plasmid capable of expressing a gene (C complex with a pharmaceutical carrier. The present sequence represents an (C oligonuclectide, which is used in an example from the present invention
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Matches
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 11-MAY-2001; 2001US-0290071P.
17-MAY-2001; 2001US-0291311P.
01-FEB-2002; 2002US-0353058P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel locked nucleic acid conjugate useful in manufacturing a medicament for treating or preventing pathogenic infections or cancer, has an oligonucleotide having locked nucleic acid based on a functional moiety.
                                                                                                                                                                                                                          Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6; bone mass modulation; osteoporosis; STS; sequence tagged site; ds.
                                                                                                                                                                                                                                                                               Sequence tagged site #187 used to prepare Zmax1 (LRP5) gene region map
                                                                                                                                                                                                                                                                                                                     04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                            ADB98306;
                                                                                                                                                                                                                                                                                                                                                                                               ADB98306 standard;
                                                                         13-MAY-2002; 2002WO-US014877.
                                                                                                                                                   WO200292000-A2
                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19 BP; 9 A; 0 C; 10 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                               DNA;
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                                                                                                                                                                                                                                                                                                                                                                                               BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 16.4;
Pred. No. 6.
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cleic acid
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RESULT 453
AXX95521
ID AXX955
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XX AXS955
XX AXS955
XX Respit
DF PCR px
XX Respit
KW Respit
KW Incutra
XX Synthe
OS Chlamy
XX WO9927
XX WO9927
XX WO9927
XX WO9927
XX GEST
XX GEST
XX GEST
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and LRP6 mutants, which results in a HBM-like phenotype when expressed in a cell. The HBM-like phenotype results in bone mass modulation and/or lipid level modulation. The invention is useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject suffering from e.g. osteoporosis. The present sequence is a Sequence Tagged Site (STS) osteoporosis, which was used to prepare a physical map of the Zmax1 (LRP5) gene marker, which was used to prepare a physical map of the Zmax1 (LRP5) gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19
                              Page 1754; Disclosure; 1912pp; English
                                                                                Genome sequence of Chlamydia pneumoniae
                                                                                                                                                                                                                                                                                                   21-NOV-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX95521;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX95521 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     composition suffering for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New nucleic acid comprising a mutation in LRP5 or LRP6, useful for diagnosing a HBM-like phenotype in a subject and for preparing a composition for modulating bone mass and/or lipid levels in a subject
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Allen K,
                                                                                                                                     WPI; 1999-357842/30.
                                                                                                                                                                                                                                                                                                                                                                                 20-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                     03-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9927105-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chlamydophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neutralising epitope; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primer used to amplify an ORF of Chlamydia pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; Page 62; 629pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-129214/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-MAR-2002; 2002US-0361293P
                                                                                                                                                                                                                                           (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GENO-) GENOME (AMHP) WYETH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
es 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3924 GTTCCTGGGTGAGATCAA 3941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     from e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP; 4 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pneumoniae.
                                                                                                                                                                                                                                                                                                97FR-00014673.
98US-0107078P.
                                                                                                                                                                                                                                                                                                                                                                                 98WO-IB001890.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     osteoporosis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 16.4;
Pred. No. 6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   erythema nodosum; pharyngitis; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morales A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yaworsky PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
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RESULT 454
AAH77767/c
ID AAH77767;
XX AAH77767;
XC AAH77767;
XX I3-NOV-2001 (first
XX Thrombospondin 1-lik
XW C200109321-A1.
XX PN WO200109321-A1.
XX 29-JUL-1999; 99JP-
PR 29-JUL-1999; 99JP-
PR 29-JUL-1999; 99JP-
PR 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
XX 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
PR 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
XX 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
PR 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
PR 29-JUL-1999; 99JP-
PR 11-JAN-2000; 2000U9-
PR 29-JUL-199; 99JP-
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-1999; 99JP-00248036.
27-AUG-1999; 99JP-0300253.
18-OCT-1999; 99US-0159590P.
11-JAN-2000; 2000JP-00118776.
17-PBB-2000; 2000US-0183322P.
02-MAY-2000; 2000JP-00183767.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX14584 AAX15879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae especially where the vector directs the expression of a neutralising
                                                                                    PCR primers AAH77766-67 were used to amplify a cDNA fragment encoding thrombospondin 1-like (TSP1-like) protein. The cDNA sequence encoding human TSP1-like protein was isolated from a human 10 week-aged foetal tissue cDNA library. The TSP1-like protein may be involved in intracellular vesicle transport. Secretion of the TSP1-like protein is reduced in brain tumours. It can be used in the screening of target
                                                                                                                                                                                                                                                                                             Example 10; Page 34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JUL-2000; 2000WO-JP005068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Thrombospondin 1-like protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAX91991-X97517 represent PCR primers used to amplify open reading frames
                                                                                                                                                                                                                                                                                                                                                ne encoding thrombospondin-like protein, it, useful for diagnosis and treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1620 CTTCAGCTGCAGAGAGCT 1637
                                                                                                                                                                                                                                                                                                                                                                                                                                             2001-541222/60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tumour; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Isogai T, Nishikawa T,
, Sugiyama T, Wakamatsu
Kanzaki K, Inoue Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       읁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kanzaki K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTCATCTGCAGAGAGCT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for human
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                                                               and is useful for diagnosis, prediction and treatment of brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 4 A; 5 C; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                          105pp; Japanese
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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Pred. No. 6.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TSP1-like protein; vesicle transport;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Η,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hayashi K,
A, Nagai K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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                                                                                                                                                                                                                                                                                                                                                      of brain
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Saito K, Y, Otsuki T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                      protein and tumors.
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encoding
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RESULT 455
ARB99718/c
ID ARB997
XX ABN997
XX 16-AUG
XX 16-AUG
XX Human;
KW Hyperc
KW Homon s
XX Homon s
XX WO2002
XX WO1-SEP
XX Novel
PT Cluste
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                                                                                                                              Query Match
Best Local (
                                                                                                       Matches
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Best Local :
                                                                                                                                                                                                                                                                                                                                        The invention comprises antisense oligonucleotides that are capable of inhibiting expression of the human clusterin gene. The antisense oligonucleotides of the invention are useful for inhibiting the expression of clusterin in cells. The antisense oligonucleotides are useful for treating an animal with a disease or condition associated clusterin (e.g. hypercholesterolaemia; cardiovascular disorders; hyperproliferative disorders; and hyperlipidemic disorders). The present and the condition associated clusterin (e.g. hypercholesterolaemia; cardiovascular disorders).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel antisense compound targeted to nucleic acid molecule encoding clusterin, useful for treating animal having disease associated with clusterin such as hyperlipidemic disorder, cardiovascular disorder.
                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                            DNA sequence represents a clusterin antisense oligonucleotide of invention. NOTE: The present DNA sequence has a phosphorothioate and also contains 2'-O-methoxyethyl wings
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2002-404805/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-SEP-2001; 2001WO-US028235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hypercholesterolaemia; cardiovascular disorder; ss; hyperproliferative disorder; hyperlipidemic disorder; phosphorothioate backbone; 2'-O-methoxyethyl wing.
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Pred. No. 6.4e+02;
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Pred. No. 6.4e+02
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RESULT 456 ABZ86076 ID ABZ86

ABZ86076 standard; DNA; 20

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                                                                                                                                                                                                     nasal airway dysfunction and a second active agent comprising an antinflammatory steroid and ubiquinone. A composition of the invention has antiinflammatory, antiallergic, antiasthmatic, hypotensive, immunosuppressive, and cytostatic activity. The composition may have a use in antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of, or reducing bensitivity to adenosine, reducing levels of adenosine receptor, producing bensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of ubiquinone or lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                 Sequence 20 BP; 1 A; 6 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Miller
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           junctions of genes encoding a polypeptide associated with lung and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-APR-2001; 2001US-0286137P
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                                                                          Conservative
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RESULT 457 ABD22306 ID ABD223

ABD22306 standard; DNA; 20 BP

Sequence 20

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Crimbis invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, comprises and composition or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating composition or cancer and can be anti-sense to the corresponding mRNA. Comprises: (A) a delivery composition or cancer and can be anti-sense to the corresponding mRNA. Comprises: (A) a delivery composition containers, (B) the oligonucleotides, (C) composition for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antinifiammatory, antiasthmatic, compassition comprises in the composition is useful for preventing or composition comprises oligo and is administered to reduce the production compassition comprises oligo and is administered to reduce the production composition comprises oligo and is administered to reduce the production of the composition comprises oligo and is administered to reduce the production are associated with a disease or condition such as pulmonary vostorion are associated with a disease or condition such as pulmonary vasocomstriction and/or uncondition such as pulmonary vasocomstriction.
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                                                                                                                                                             inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the property of the present in the target RNA serves to prevent the breakdown of the present in the target RNA serves to prevent the breakdown of the present in the target RNA serves to prevent the breakdown of the prevent the p
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                                                              oligonucleotides into products that free adenosine into ., lung, brain, heart, kidney, etc, tissue environment ar vent any unwanted effects due to it
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L, Shahabuddin S;
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                                                                                                                                                                                                                                          The invention relates to an antisense oligonuclectide targeted to a nucleic acid encoding the human G protein-coupled receptor 6 (GPCR-6), which specifically hybridises with the nucleic acid encoding the GPCR-6 and inhibits expression of the GPCR-6. The antisense oligonuclectide comprises at least one modified internucleoside linkage, i.e. a proposition of the GPCR-6 are modified sugar motety, preferably a 2°-0-methoxyethyl sugar motety, or at least one modified nucleobase comprising a 5-methylcytosine. The antisense oligonucleotides are useful for inhibiting expression of the GPCR-6 and in preparation of a composition for treating a disease or condition associated with GPCR-6,
                                                                                                                                                                                       e.g., a metabolic disorder, aberrant signal transduction in brain tissue a neuronal, motor, sensory, psychiatric or behavioural disorder or drug or chemical addiction. This sequence represents an antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel antisense compound targeted to nucleic acids encoding G protein-coupled receptor 6 (GPCR-6), useful for treating animal having disease associated with GPCR-6 e.g. metabolic, neuronal, motor, sensory or behavioral disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2'-O-methoxyethyl sugar moiety; 5-methylcytosine; metabolic disorder; aberrant signal transduction; brain tissue; neuronal disorder; motor disorder; densory disorder; psychiatric disorder; behavioural disorder; drug addiction; chemical addiction; neuroleptic.
                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISIS PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 33; 54pp; English.
                                                                                                                                        BP,
                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                        v
                                                                                                                                                                          of the invention.
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                                                                                     94.4%;
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                                                                                                                                        G, 1 T,
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                                                                                                   Score 16.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 16.4; DB 1;
Pred. No. 6.4e+02;
                                                                                     Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                     No.
                                                                                                                                        0
                                                                                                                                        Ç,
                                                                                     6.4e+02;
                                                                                                   DB 1; Length 20;
                                                                                                                                        0 Other
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                                                                    Indels
                                                                                                                                                                                                                             in brain tissue,
                                                                    0,
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                                                                    Gaps
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RESULT: 459
ADJ53441
ID ADJ5344
XX Human;
XX Human;
XX ADT O-MAY
XX ADT O-MAY
XX ADT O-MAY
XX Homo B
XX US2004
XX ISIS-
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XX ADJ-JUL
XX ISIS-
XX INOVEL
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                                                                                                                       Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                            which specifically hybridises with the nucleic acid encoding the GPCR-6, and inhibits expression of the GPCR-6. The antisense oligonucleotide comprises at least one modified internucleoside linkage, i.e. a phosphorothioate linkage, at least one modified sugar moiety, preferably a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase comprising a 5-methylcytosine. The antisense oligonucleotides are useful for inhibiting expression of the GPCR-6 and in preparation of a composition for treating a disease or condition associated with GPCR-6, e.g., a metabolic disorder, aberrant signal transduction in brain tissue, a neuronal, motor, sensory, psychiatric or behavioural disorder or drug or chemical addiction. This sequence represents an antisense oligonucleotide target region of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; G protein-coupled receptor 6; GPCR-6; 88; antisense oligonucleotide; phosphorothicate linkage; antisense oligonucleotide; phosphorothicate linkage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2'-O-methoxyethyl sugar moiety; 5-methylcytosine; metabolic di
aberrant signal transduction; brain tissue; neuronal disorder;
motor disorder; sensory disorder; psychiatric disorder;
                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an antisense oligonucleotide targeted to nucleic acid encoding the human G protein-coupled receptor 6 (GPCF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 15; SEQ ID NO 101; 54pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel antisense compound targeted to nucleic acids encoding G protein-coupled receptor 6 (GPCR-6), useful for treating animal having disease associated with GPCR-6 e.g. metabolic, neuronal, motor, sensory or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2004-142661/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-JUL-2002; 2002US-00210479.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               31-JUL-2002; 2002US-00210479.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           behavioural disorder; drug addiction; chemical addiction; neuroleptic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  behavioral disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US2004023380-A1
                                                           3053
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μ
                                                                                                                                                    Similarity
                                                           TGGCTGGCTGTGGCCTCA 3070
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reeceecrereectica 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dobie KW;
                                                                                                                                                                                                                                                 BP; 1
                                                                                                                          Conservative
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                                                                                                                                                                                                                                                 A, 6 C; 8 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                    0.3%;
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                                                                                                                                                    Score 16.4;
Pred. No. 6
                                                                                                                          Mismatches
                                                                                                                                                        6.4e+02
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                                                                                                                                                                                  Length
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                                                                                                                          Gaps
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AAQ20035/c ID AAQ200 XX AC AAQ200

AAQ20035 standard; DNA; 21

BP

AAQ20035;

RESULT 460

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CCCXSX^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} + 2^{2} +
The sequence is designed to target the Human tumour necrosis factor beginning at nucleotide 1137 and to covalently cross-link to it via the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
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modified_base
                                                         Example 4; Page 25; 42pp; English.
                                                                                                                       New sequence-specific non-photo-activated crosslinking agents -
the major groove of duplex DNA and are esp. useful for treating
                                                                                                                                                                                        WPI; 1992-007480/01.
                                                                                                                                                                                                                              Matteucci MD,
                                                                                                                                                                                                                                                                                                                25-MAY-1990;
14-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                         25-MAY-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      deoxyribonucleic acid; major groove; ethanoamino group;
aziridinylcytosine; cross-linking group; tumour necrosis factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cross-linking
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                                                                                                  infections e.g. HIV.
                                                                                                                                                                                                                                                                       (GILE-) GILEAD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oligomer 216 for targetting human
                                                                                                                                                                                                                            Krawczyk S;
                                                                                                                                                                                                                                                                       SCIE INC.
                                                                                                                                                                                                                                                                                                                90US-00529346.
91US-00640654.
                                                                                                                                                                                                                                                                                                                                                                           90US-00529346
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= k
/mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
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/mod_base=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag=
/mod_ba
17
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/mod_base= OTHER
/note= "N-methyl-8-oxo-2'-deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        base= OTHER
== "N-methyl-8-oxo-2'-deoxyadenine"
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SXS
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Best Local Similarity 94.4%;
Matches 17; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N4N4-ethanocytosine group. See also AAQ20031-Q20038
                                                                                                                                                                                                                                                                                                                                                   Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                        Oligomer TNF216 for forming triplex with HUMTNFAA target duplex.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1184 AAAGAGAGAGAGAGAAAT 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 AAAGAGAGAGAGAATT 3
                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                     /mod_base= OTHER
/note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
                                                                                                                                                                                                                                 mod_base= OTHER
                                                                                                                                                                                                                                                              base= OTHER
= "OTHER= N6
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= "OTHER= N4
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= "OTHER= N6
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                                                                                                                                                                                                     methyl-8-oxo-2' deoxyadenine"
                                                                                                                                                                                                                                                                                            N4
                                                                                                                                                                                                                                  methyl-8-oxo-2'
                                                                                                                                                                                                                                                              methyl-8-oxo-2'
                                                                                                                                                                                                                                                                                            ethanocytosine"
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                                                                                                                                                                                                                                   deoxyadenine"
                                                                                                                                                                                                                                                              deoxyadenine"
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RESULT 462
AAQ30382/c
ID AAQ303
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Best Local S
Matches 17
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18-JAN-1991;
08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                             Key
modified_base
                                                                                                                                                                                                   Tumour necrosis factor; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                          Oligomer TNF213
                                                                                                                                                                                                                                                                     25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                    AAQ30382 standard, DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New oligomers contg. modified bases - doublet in a DNA duplex, for treating herpes malignancy and inflammation.
                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                            AAQ30382;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 4 A; 7 C; 0
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                         modified_base
                                                                               modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                        AAAGAGAGAGAGAATT 3
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                                                                                                                                                                                                                                                                   (revised)
(first entry)
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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                                                                           /*tag=
/mod_base= \.
~= "OTHBR= N
                                     /*tag= b
/mod_base= OTHER
/mod_ "OTHER= N6 "
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                                                                                                                                                                                                                                           for forming triplex with HUMTNFAA target duplex
                                                                                                                                               Location/Qualifiers
/*tag= c
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
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                                                                                    OTHER
HER= N6 methyl-8-oxo-2'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. 6.40
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.4; DB 1;
Pred. No. 6.4e+02;
                                         methyl-8-oxo-2'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             which form a triplex with G-C and diagnosing HIV, hepatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Milligan
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                                         deoxyadenine"
                                                                                             deoxyadenine"
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23-NOV-1990;
18-JAN-1991;
08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
                                 The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human tumour necrosis factor beginning at nucleotide 1137 contg. a purine rich sequence concd. on one strand of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. HPV; HER; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple halices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
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                                                                                                                                                                                                                                                                                                                    New oligomers contg. modified bases - which form a triplex with doublet in a DNA duplex, for treating and diagnosing HIV, hepatiherpes malignancy and inflammation.
Sequence 21 BP; 5 A; 6 C; 0 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                              Claim 12; Page 70; 77pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Froehler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27-SEP-1991;
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91US-00643382.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
91US-00766733.
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/mod_base= OTHER
/note= "OTHER= N6 r
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/mod_base=
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/mod_ba
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/mod_base= OTHER
/note= "OTHER= N6 methyl-8-oxo-2' deoxyadenine"
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Milligan
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, hepatitis,
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1184 AAAGAGAGAGAGAAAT 1201 Conservative

Query Match Best Local S

0.3%;

Length 21,

Indels

0

Gaps

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0; Mismatches Score 16.4; DB 1 Pred. No. 6.4e+02

Best Local Similarity Matches 17; Conserv

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RESULT 463
AAH62162
ID AAH621
XX AAH621
DT 09-SEI
DT 12-SEI
XX Singl
XX Singl
XX W heart
XX Homo
OS Unid
XX W Yari
FT Vari
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                                                                                                                                            Query Match
Best Local :
                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                          DNA sequences AAH62100 - AAH62688 represent segments of human genes which contain single nucleotide polymorphisms (SNPs). A method is included in the invention for analysing a nucleic acid sample, which consists of determining the base occupying any one of the polymorphic sites given in the SNP containing sequences. The nucleotide sequences can be used in the diagnosis or monitoring of diseases, such as cancer, inflammation, heart diseases, diseases of the cardiovascular system, and infection by microorganisms. The oligonucleotides are also useful in the manufacture of a medicament for the treatment or prophylaxis of the diseases, and as a pharmaceutical. SNP containing oligonucleotides are useful in applications such as phenotype correlation, forensics, paternity testing, medicine and genetic analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid segments of the human genome, particularly from genes including polymorphic sites, for phenotype correlation, forensics, paternity testing, medicine and genetic analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Single nucleotide polymorphism; SNP; human; cancer; inflammation; heart disease; paternity testing; forensic science; ds.
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12-SEP-2001
                                                                                                                                                                                                                               Sequence 21 BP; 3 A; 8 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                            Revised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Page 34; 80pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2001-367705/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-NOV-1999;
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                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (revised)
(first entry)
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/standard_name= "single nucleotide polymorphism"
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                                                                                                              <u>.</u>
                                                                                                                                                                        Score 16.4;
                                                                                                                                            Pred.
                                                                                                                 Mismatches
                                                                                                                                            ŏ.
                                                                                                                                            6.4e+02
                                                                                                                                                                        DB 1; Length 21;
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                                                                                                                                                                                                                                                                                            Feature Table Key
                                                                                                              0;
                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #63.
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RESULT 464

Human DNA probe used to immobilise CpG methylated DNA SeqID 973

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ADJ13701/c
ID ADJ13701 standard, DNA; 21 BP XX
AC ADJ13701;
XX
DT 20-MAY-2004 (first entry)
XX
DT 20-MAY-2004 (first entry)
XX
DT 20-MAY-2004 (first entry)
XX
Probe; ss; chemical modificat tw tumour suppressor, pl6; human XX
WS2003152950-A1.
XX
US2003152950-A1.
XX
27-JUN-2002; 2002US-00184085.
XX
27-JUN-2001; 2001US-0301370P.
XX
27-JUN-2001; 2001US-0301370P.
XX
(GARN/) GRNER H R.
PA (MINN/) MINNA J D.
PA (LIUEB/) LUEBKE K J.
PA (MALO/) BALOG R P.
XX
GARNER H R.
PA (MINN/) TOURSKE K J.
PA (MALO/) BALOG R P.
XX
CR (GARN/) GARNER H R.
PA (MINN/) MINNA J D.
PA (LIUEB/) LUEBKE K J.
PA (MINN/) MINNA J D.
PA (ILUEB/) LUEBKE K J.
PA (BALO/) BALOG R P.
XX
CR (GARN/) GARNER H R.
PA (MINN/) MINNA J D.
PA (LIUEB/) LUEBKE K J.
PA (MINN/) MINNA J D.
PA (ILUEB/) LUEBKE K J.
PA (MINN/) MINNA J D.
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PA (ILUEB/) LUEBKE K J.
PA (MINN/) MINNA J D.
PA (MINN/) D.
PA (MINN/) MINNA J D.
PA (MINN/) D.
PA (MINNA J D.
PA (
RESULT 465
ADJ13846/C
ID ADJ138
XX
AC ADJ138
XX
DT 20-MAY
XX
DE Human
XX
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human DNA probe used to immobilise CpG methylated DNA SeqID 828.
                                                                                                     20-MAY-2004
                                                                                                                                                                                                                                      ADJ13846 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ ID NO 828; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2436 GGATGAGAAGGGGAGAGG 2453
                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ss; chemical modification; methylation; array; CpG island
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                              GGATGAGAGGGGGAGAGG 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 2 A; 13 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                     (first entry)
                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Luebke KJ,
                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                          BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 16.4; DB 1; Length 21; Pred. No. 6.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Balog
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RESULT 466
ADJ13700/C
ID ADJ137
XX ADJ137
AC ADJ137
XX ADJ137
XX ADJ137
XX Encode;
XX probe;
XX tumour
XX Homo 8
XX Homo 9
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      S
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      particular, this invention refers to analyzaky when the two a region of the promoter for the tumour suppressor gene pi6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                  probe; 88; chemical modification; methylation; array; CpG island
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Garner HR,
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(MINN/)
(LUEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; ss; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                                      US2003152950-A1
                                                                                                                                                                                                                                                                                                                                          20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ13700 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-AUG-2003.
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                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (/OTAB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2436 GGATGAGAAGGGGAGAGG 2453
                                                                                                                                                                                                                                                                                   DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GARNER H R.
MINNA J D.
LUEBKE K J.
BALOG R P.
                                                                                                                                                                                               suppressor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  suppressor; p16; human;
                                                                                                                                                                                                                                                                                   probe used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;
                                                                                                                                                                                                                                                                             to immobilise CpG methylated DNA SeqID 827.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 C; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    973;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              210pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.4; DB 1; Length 21; Pred. No. 6.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ξ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
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RESULT 467
ADJ13810/c
ID ADJ138
XX ADJ138
XX ADJ138
XX Probe;
XX Probe;
XX Probe;
XX US2003
XX U
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis of chemical modification of DNA involves obtaining sample to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA
                                                                                        (GARN/)
                                                                                                                                                                             27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                        14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADJ13810;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADJ13810 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21 BP; 2 A; 13 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; SEQ ID NO 827; 210pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-JUN-2001; 2001US-0301370P
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                                                                                                                                                                                                                                27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention.
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(MINN/) MINNA J I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (/88NT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2436 GGATGAGAAGGGGAGAGG 2453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA probe used to immobilise CpG methylated DNA SeqID 937.
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) LUEBKE K J
) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17;
                                MINNA J D.
LUBBKE K J.
BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88; chemical modification; methylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          suppressor; p16; human; H69; H1618.
                                                                                                                  GARNER H R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 16.4; DB 1;
Pred. No. 6.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       array; CpG island
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 21;
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(LUEB/)

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RESULT 468
ADJ13739/c
ID ADJ137
XX ADJ137
XX ADJ137
XX Probe;
KW probe;
KW tumoux
XX Homo E
XX US2003
XX GARN,
PA (HNLO,
XX GARN,
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PT (HI Che

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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical resgents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pls from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence
                                                       Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human DNA probe used to immobilise CpG methylated DNA SeqID 866.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADJ13739 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Garner HR,
                                                                                                                                                                                   WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                             (GARN/)
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                                                                                                                                                                                                                                                                                                                                                                 (MINN/)
                                                                                                                                                                                                                                                                                                         (/OTAB)
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                                                                                                                                                                                                                                                                                                   ) GARNER H R.
) MINNA J D.
) LUEBKE K J.
) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ss; chemical modification; methylation; array; CpG island, suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ
                                                                                                                                                                                                                                           Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 2 A; 12 C; 1 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                              Luebke
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Pred. No. 6.4e+02;
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                                                                                                                                                                                                                                           Balog
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                                                                                                                            DNA
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$266666666666666688&
Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence
                                                                                                                                                                                                                                                                                                                                             modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in
                                                                                           Sequence 21
                                                                                                                                       invention.
                                                                                                                                                          is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel method for analysing chemically
                                                                                           BP; 2 A;
                     0.38;
                                                                                           13
                                                                                           c;
0
                     Score 16.4; DB
Pred. No. 6.4e+C
                                                                                           G; 6 T; 0 U; 0 Other;
                                                1,
                                             Length
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             S
              2436
18 GGATGAGAGGGGGAGAGG 1
               GGATGAGAAGGGGAGAGG
                              Conservative
               2453
                              ,
                               Mismatches
                               Indels
                               0
                              Gaps
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6.4e+02

<u>,</u>

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RESULT 469
ADJ13039/c
ID ADJ13039/c
AC ADJ130

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-2003.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tumour suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ss; chemical modification; methylation;
suppressor; p16; human; H69; H1618.
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Garner HR, Minna JD,
                                                       (LUEB/)
                                                                                                     27-JUN-2001; 2001US-0301370P.
                                               ()OJIAB
                                                                      (NINN/)
                                                                                 (GARN/)
2003-874843/81.
                                            ) MINNA J D.
) LUEBKE K J.
) BALOG R P.
                                                                                GARNER H R.
                       Luebke KJ,
                      Balog
                       RP.
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Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.

Example 1; SEQ ID NO 166; 210pp; English.

This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences.

SEQ

ij

ğ

666;

210pp;

English

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RESULT 470
ADJ13774/c
ID ADJ1377
XX ADJ137
XX ADJ137
XX Probe;
XX Probe;
XX Probe;
XX US2003
XX US2003
XX US2003
XX US2003
XX (GARN)
PA (MINN)
PA (MINN)
PA (MINN)
PA (BALO)
XX WPI;
XX WPI;
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CC modif
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                                               This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                           Analysis of chemical modification of DNA involves obtaining sample of
to be analyzed, treating DNA with chemical reagents that result in
different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probe; 88; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Garner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-JUN-2001; 2001US-0301370P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BALO/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GARNER H R.

MINNA J D.

LUEBKE K J.

BALOG R P.
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17, Conserv
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                                                                                                                                                                                                                                                                                             SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Minna JD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                             901;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             to immobilise CpG methylated DNA SeqID 901.
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Luebke
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                                                                                                                                                                                                                                                                                            210pp; English.
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Pred. No. 6.
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Sequence

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Other,

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2437 GATGAGAAGGGGAGAGGT 2454

Query Match Best Local S Matches 17

Similarity

94.4%;

0.3%;

Score 16.4; Pred. No. 6.

.4e+02

DB 1;

Length

21

Conservative

0;

Mismatches

Indels

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Gaps

0

Sequence 21

BP; 4 A;

12 C; 0 G; 5 T; 0 U; 0 Other;

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21

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RESULT 471
ADJIJIO7/c
ID Human |
IXX Probe;
IXW Lumour
IXX US2003
IX IOARN/
IX (GARN/

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Best Local S
                                                                               This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis of chemical modification of DNA involves obtaining sample to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; SEQ ID NO 234; 210pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Garner HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (LUEB/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-JUN-2002; 2002US-00184085.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          probe; ss; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADJ13107
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                                                                   invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2003152950-A1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GARN/) GARNER H R.
(MINN/) MINNA J D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2436 GGATGAGAAGGGGAGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2003-874843/81.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LUEBKE K J.
BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGATGAGACGGGGAGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probe used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
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Pred. No. 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CpG methylated DNA SeqID 234.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              뭥
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ARBSULT 473
AAQ67954/C
ID AAQ679
XX AAQ679
XX AAQ679
XX DAQ679
XX DAQ679
XX CAQ679
XX CAQ679
XX CQ44 P
XX CQ44;
XX CQ44;
XX PCR;
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ABT21572
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a novel method for determining racing potential of a horse. The method comprises measuring: whether grandpaternal DNA is over-represented in the genome of the horse; or in the case where one of the grandmothers was selected for breeding on the basis of racing performance, whether grandmaternal DNA from the selected grandmother is over-represented in the genome of the horse which indicates that the horse has good racing potential. The method of the invention is useful for determining the racing potential of a horse or for obtaining a progeny horse with good racing potential of a horse or for obtaining a progeny horse with good racing potential. This polymucleotide sequence represents a PCR primer used in the detection method of over-representation of DNA from male grandparents of the invention
                                                                                                                                           25-MAR-2003
08-DEC-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22 BP; 1 A; 8 C; 2 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Determining the racing potential of a horse comprises measuring whether grandpaternal or grandmaternal DNA from the selected grandmother DNA is over-represented in the genome of the horse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Racing potential; horse; grandpaternal DNA; over-represented; breeding; grandmother; performance; progeny horse; PCR; primer; ss.
                        CD44; exon 6; cell surface protein; primer; polymerase chain reaction; PCR; amplification; tumor; imaging; therapy; ss.
                                                                                               CD44 PCR primer
                                                                                                                                                                                                                  AAQ67954;
                                                                                                                                                                                                                                                              AAQ67954 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 25; 49pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-129314/12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Binns MM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-MAY-2001; 2001GB-00011886
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-MAY-2002; 2002WO-GB002273
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(BRHO-) BRITISH HORSERACING BOARD
                                                                                                                                                                                                                                                                                                                                                                                                                     4870 TCTCAGTTTCTTCTCTG 4887
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                                                                                                                                           (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entry)
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                                                                                                                                                                                                                                                              BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 6.4e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 16.4; DB 1;
Pred. No. 6.4e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 22;
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RESULT 474
AAQ55904/c
ID AAQ559
XX AAQ559
XX AAQ559
XX 25-MAR
DT 25-MAR
DT 25-JUL
XX PCR; p
KW PCR; p
KW diagnc
XX Synthe
XX WO9402
XX Synthe
XX HO9402
XX ISIS-
PD 03-FEE
XX 20-NOW
PR 16-DEC
XX 21-JUL
PR 20-JUL
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PR 21
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Best Local :
                                                                                                                                                                                         21-JUL-1992;
20-NOV-1992;
16-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
25-JUL-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tarin D,
  Method for diagnosing neoplasia,
                                                                                                                                                                                                                                                                                                                                                                                 WO9402633-A1
                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9412631-A1.
                                                                                            Barin D,
                                                                                                                                                                                                                                                                                      20-ЛПТ-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ55904;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS
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16-DEC-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-NOV-1993;
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The primers given in AAQ67948-58 are used for cancer diagnosis assay. The primers given in AAQ67948-51 anneal to the standard CD44, and those given in AAQ67952-58 anneal to exon sequences on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                             PCR; polymerase chain reaction; CD44; cancer; bladder cancer; detection; diagnosis; carcinoma; solid tumour; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 5 A; 6 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antibody specific for peptide of exon 6 of CD44 - also exon 6 fragments and fusion protein, useful for diagnosis, treatment and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
WPI; 1994-048890/06
                                                                                                                                                                                                                                                                                                                                                           AAQ55904 standard; DNA; 21
                                                 (ISIS-) ISIS INNOVATION LTD
                                                                                                                                                                                                                                                                 PCR primer for amplifying region of CD44 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 25; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                   3255 CCAGGACCTGGCCTCTGTGCT 3275
                        Matsumura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matsumura Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                             (revised)
(first entry)
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                                                                         92GB-00015498.
92GB-00024386.
92GB-00026165.
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92GB-00026165
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Pred. No. 6.
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(Updated
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carcinoma

utilises unequal

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RESULT 475
AAQ75682/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 18
A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ75682;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ75682 standard;
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                                                                                                                                                                                                                                                                                                                      Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1995-018287/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-NOV-1994
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example
                                                                                                                                                                                                                                                         Disclosure; Page 7; llpp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 primers (AAQ55898-Q55908) were used in the amplification of a CD44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         splicing of CD44 gene in cancer patients compared to controls.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NITE ) NIPPON TELEGRAPH & TELEPHONE
                                                                                                                                                                                                                                                                                                                   digestion
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene expression; reverse transcription;
; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Page 17; 42pp; English.
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Pred. No. 6.8e+02;
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      seperate lanes. The
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (CBNESEQ files AAQ75547-Q75798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 1 A; 1 C; 0 G; 19 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis of cDNA and gene expression by digestion with restriction enzymes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1995-018287/03
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                                                                                                                                                                                                                                                                                                                       5399 ATACAAAAAAGAAAAAATGAA 5419
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85.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                  Score 16.2;
Pred. No. 6.
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Pred. No. 6.
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                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                21;
                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>,,</u>
                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66
                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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08-JAN-1996 AAQ90391; AAQ90391

(first

standard;

DNA;

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RESULT 478
AAT10743
ID AAT107
XX AAT107
XX AAT107
XX O9-SEP
XX Oligor
XX Electi
KW Electi
KW attack
KW detect
XX detect
XX Synthe
XX Synthe
XX Synthe
XX Key
FH Mcey
FT modifi
                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequences represented by, AAQ90390-90401 are synthetic DNA probes containing 3' ribonucleoside termini. The sequences shown in AAQ90402-15 are synthetic DNA probes with 5' amino termini. These sequences were specific for the polymorphisms of HIA gene dQa. These sequences were used in the device of the invention. This is a self-addressable electronic device (SAED) that can be used to carry out multi-step and multiplex reactions, such as nucleic acid hybridisations. The advantages of this method are that these reactions can be carried out with complete and precise electronic control, and that the rate, specificity and sensitivity of these reactions are greatly improved at micro-locations
                                                                                     attachment
detection;
                                                                                                                                              Oligonucleotide probe, CP-1.
                                                                                                                                                                              09-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21 BP; 20 A; 0 C; 0 G; 0 T; 1 U; 0 Other;
                                                           Synthetic.
                                                                                                                  Electronically self-addressable device; ED; electrode; current source;
                                                                                                                                                                                                                                     AAT10743 standard; RNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 40; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and bio:polymer synthesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New self-addressable electronic devices - used for multi-step and multiplex reactions such as DNA hybridisation(s), clinical diagnostics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1995-185870/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Heller MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO9512808-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CP-1 (synthetic DNA probe with 3'ribonucleoside terminal #2).
               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (NANO-) NANOGEN INC
                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                5396 AAAATACAAAAAAGAAAAAAT 5416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HLA; dQa; 3' r: hybridisation;
                                                                                                                                                                                                                                                                                                               AAAAAAAAAAAAAAAAAA 21
                                                                                        88.
                                                                                                   layer; permeable; counterion; genetic typing; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7
                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       93US-00146504
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                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /*tag= a
/note= "3' ribonucleoside terminal"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ribonucleoside; self-addressable electronic device;
                                                                                                                                                                                                                                                                                                                                                                                     81.0%;
                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                      1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                     21;
                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                        Gaps
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RESULT 479
AAV36491
ID AAV364
XX AAV364
AC AAV364
XX Parimex
XX Partia
KW Primex
XX Parimex
XX Pomo E
XX PO9820
XX HOMO E
YO 14-MAN
XX O4-NON
XX O4-NON
XX CUYMA-
XX DOXSE
PI DOXSE
PI DOXSE
XX DOXSE
XX PARI
XX CUYMA-
XX CUYMA-
XX COXSE
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Watches 17; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             문
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The sequences given in AAT10742-67 are synthetic oligonucleotides which are used in the construction of the electronically self- addressable device (ED) of the invention. The ED comprises a substrate, an electrode or opt. a number of electrodes supported by the substrate, a current source operatively connected to the electrode and an attachment layer adjacent to the electrode which is permeable to a counterion but not permeable to a molecule capable of insulating or binding to the electrode. The attachment layer is capable of attaching a macromolecule. The ED is used for genetic typing and comprises a number of electronically addressable locations each comprising an electrode, and a binding entity, such as one of these probes, attached to each of the locations capable of detecting the presence of a genetic sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Electronically self-addressable device e.g. nucleic acid hybridisation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV36491;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1996-097582/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Heller MJ, Tu E, Evans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9601836-A1
  WPI; 1998-286855/25
                                                             Doxsey SJ;
                                                                                                                                                                                                                                                                                                                                           WO9820025-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Partial centrosomal protein 140; CP140; scleroderma; sclerotic disease; Primer; amplification; PCR; PCR-RFLP; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primer R2.5',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAV36491 standard; cDNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JUL-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JAN-1996
                                                                                                                                                                        05-NOV-1996;
                                                                                                                                                                                                                            04-NOV-1997;
                                                                                                                                                                                                                                                                                    14-MAY-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 60; 155pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NANO-) NANOGEN INC
                                                                                                                 (UYMA-) UNIV MASSACHUSETTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5396 AAAATACAAAAAGAAAAAAT 5416
                                                                                                                                                                                                                                                                                                                                                                                               sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAAAAAAAAAAAAAAAA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amplifies bases 535-555 of the CP140 gene.
                                                                                                                                                                        96US-00743200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94US-00271882
                                                                                                                                                                                                                               97WO-US020520.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "3'-ribonucleoside terminus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 0 C; 0 G; 0 T; 1 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sosnowski
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for electronic control of,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           an electrode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>;</u>
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RESULT 480
AAV57641
ID AAV576
XX AAV576
XX Exon 4
XX Exon 4
XX Exon 4
XX Exon 4
XX Exon 6
XX Exon 4
XX Exon 6
XX Exon 6
XX Exon 6
XX Exon 6
XX Homo 8
XX W09840
XX 17-SEF
XX W09840
XX 11-MAH
XX (UYYA
XX I1-MAH
XX WPI; 1
XX Determ
PT mediat
PT mediat
PT preser
PT mediat
PT preser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 18
Sequences shown in AAV57601 to AAV57686 represent primers used for the PCR amplification of the exons of the different submits of the human epithelial sodium channel (ENAC) gene. This is used in the method of the invention of determining the presence or absence of a mutation conferring a pathological condition mediated by altered ion transport. The method comprises analysing a nucleic acid sample, or protein sample, for the presence of a mutation in the ENAC gene, or in its encoded protein. A vector containing a nucleic acid encoding a human altered variant of the
                                                                                                                                                                                                                                                                                                  Determination of presence of mutation conferring pathological condition mediated by altered ion transport - comprises analysing sample for presence of mutation of potassium ion channel gene, ENAC, or in its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Primers AAV36488-V36500, and primers AAV40423-V40431 were used to amplify regions of the centrosomal protein 140 (CP140) gene from both normal and sclerotic individuals. To determine if patients have the disease, the obtained DNA from both types of individuals is subjected to standard PCR-BFLP. If any defects are identified at this loci, then the PCR fragments which contain the defective fragments are cloned and sequenced. The location of the defect can now be determined, characterisation of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Screening for sclerotic disease in patients - by detection of anti-CP140 autoantibodies, altered CP140 mRNA, altered CP140 protein levels or an alteration in the CP140 gene.
                                                                                                                                                                                                                             Example 1, Page 38,
                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1998-506740/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Epithelial sodium channel; ENAC; mutation; pathological condition; ion transport; water retention; blood pressure; metabolic acidosis; chronic respiratory disease; inflammation; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Exon 4 of an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV57641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 9 A; 4 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 31; 54pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11-MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9840516-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYYA ) UNIV YALE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2838 CAGGCAGCACAGATCAACATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       can occur,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₽P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGGCAGTACAGATCAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-0040171P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-US004681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    thus allowing this gene to
                                                                                                                                                                                                                                                                                                                                                                                                                                                       SS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               subunit amplifying forward primer B-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                          56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rossier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.2;
Pred. No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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This invention describes a novel method for identifying an inhibitor potentially useful for treatment of cancer, where the inhibitor is active con a gene vital for cell growth or viability, and where the gene is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is cused for preventing the development of cancer in a patient having a precancerous condition, by administering to the patient a first allele specific inhibitor (ASI) targeted to an allele of a first essential gene cells of the precancerous condition, where the normal somatic cells of the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene corresponding to the patient are heterozygous for the first gene, the inhibitor is active on at least one but less than all allelic forms of the gene corresponding to a special condition and tragets only one allelic form present in the normal somatic cells, and the first gene. The products and methods can be used in the diagnosis, prevention and treatment of LOH disorders, e.g. cancers, atheroscierotic plaques, premalignant metaplastic or dysplastic cellsions, benign tumours, endometriosis, polycystic kidney disease, and corresponding to the method can also be used to remove
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH; cell viability; loss of heterozygosity; precancerous condition; ASI; allele specific inhibitor; somatic cell; diagnosis; prevention; atherosclerotic plaque; premalignant metaplastic lesion; endometriosis; dysplastic lesion; benign tumour; polycystic kidney disease; transplant graft versus host disease; malignant cell removal; bone marrow; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying target genes for allele-specific drugs - used for diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic plaque, dysplastic lesions, endometriosis or graft versus host disease.
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Pred. No. 6
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Best Local Similarity
Matches 18; Conserv
                         immediately at the electrode surface. The microelectronic device is designed and fabricated to actively carry out and control reactions such as nucleic acid hybridizations, antibody/antigen reactions, sample preparation, diagnostics and biopolymer synthesis. The device can electronically control the transport and attachment of specific binding entities, such as nucleic acids and polypeptides, to specific microlocations. The device can subsequently control the transport and reaction of analytes or reactants at the addressed specific micro-locations. The device is able to concentrate analytes and reactants, remove nonspecifically bound molecules, provide stringency control for DNA hybridization reactions and improve the detection of analytes. The
                                                                                                                                                                                                                                                                                                                                                                microelectronic device which is designed to actively carry out and control multi-step and multiplex molecular biological reactions in microscopic formats. A key aspect of this inventions is played by the ion permeable permeation layer which overlies the electrode. This permeation layer allows attachment of nucleic acids to permit immobilization but also separates the attached oligonucleotides and hybridized target DNA sequences from the highly reactive electrochemical environment generated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Microelectronic device; multi-step reaction; microscopic format; ion-permeable permeation layer; electrode; electrical control; transport; attachment; binding; DNA/RNA hybrid; probe; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ĭ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           out and control multi-step in microscopic format.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Heller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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         invention
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RESULT 483
AAX25057
ID AAX250
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                      S
                                                                                                                            Primers having the present sequence, and the sequence given in AAX25058, care used in the PCR amplification of the human atrial natriuretic factor (ANF) gene (see AAX25054) from a genomic or cDNA library. The invention provides methods for using mutant ANF (especially human mutant ANF in which Gly-1 is replaced by Ser, Thr or Tyr, see AAX99194-96), fragments, analogues, derivatives and homologues of mutant ANF proteins, the nucleic acids encoding these mutant ANF proteins, as well as modulators of ANF for treating or preventing ischaemic diseases, especially ischaemic stroke. The invention also relates to methods of diagnosis, prognosis and screening for genetic predisposition for diseases and disorders associated with increased levels of ANF. Pharmaceutical compositions, methods of screening for ANF alleles that are protective for stroke, and methods of screening for ANF modulators useful for treatment and correvention of ischaemic stroke are also provided
                                                  Query Match
Best Local S
Matches 18
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Best Local S
Matches 17
                                                                                                       Sequence
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Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                      Shimkets RA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-AUG-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO9908510-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Atrial natriuretic ischaemic stroke; t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human atrial natriuretic factor ANF gene PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          05-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CURA-)
                                                                                                                                                                                                                                                                                                                                                                 new mutant of atrial natriuretic factor.
                         5146
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17; Conserv
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                                                                 Similarity
                       GGAACCATTIGCCTCTGGCTG 5166
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                                                                                                         BP; 2 A; 5 C; 7
                                                                                                                                                                                                                                                                                                                                      Page 13; 85pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ANF gene; atrial natriuretic peptide; human; diagnosis; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP
                                                                 'Score 16.2;
Pred. No. 6
                                                                                                         G; 7 T; 0
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Pred. No. 6.8e
1; Mismatches
                                               Pred. No. 5.50
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G; 0 T; 1 U;
                                                                                                         U; 0 Other;
                                                 3.8e+02;
3;
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                                                                              DB 1;
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                                                     Indels
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RESULT

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RESULT 485
AAZ59350/C
ID AAZ5933
XX AAZ593
XX AAZ593
XX O5-APR
XX O5-APR
XX Single
KW probel
XX Single
XX Single
XX Single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 0.3%;
Best Local Similarity 85.7%;
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               describes a protein comprising a mammaglobin antigen that is recognized by B and/or Tc cells specific for the natural, secreted and glycosylated form of mammaglobin polypeptide. This protein, or recombinant vectors that express it, are used in vaccines for treating mammaglobin expressing cancers, specifically of the breast. Such cancers can also be treated using autologous tumor lymphocytes activated ex vivo with an mammaglobin antigen, then returned to the patient. Expression of mammaglobin is elevated in 27% of stage I primary breast cancers, so it represents a marker useful for diagnosis of this disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; mammary-specific protein; mammaglobin; antigen; vaccine; mammaglobin-expressing cancer; breast cancer; sutologous tumor lymphocyte; diagnosis; marker; primer; ss.
                                                                                                                                                 Single nucleotide polymorphism; SNP; STP2; phenol sulphotransferase; probe; genotyping; human; drug metabolism; ss.
                                                                                                                                                                                                                                                                                                     05-APR-2000
                                                                                                                                                                                                                                                                                                                                                             AAZ59350;
                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ59350 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 0 A; 0 C; 0 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present primer was used to reverse transcribe RNA encoding a humanmary-specific protein, designated mammaglobin. The specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-244021/20
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                                                                                         Homo sapiens
                                                                                                                                                                                                                                 Human STP2 gene promoter polymorphism sequence 108.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2; Page 55; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammaglobin, secreted protein overexpressed in breast cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-MAR-1999.
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      variation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5393 AAAAAAATACAAAAAAGAAAA 5413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        to reverse transcribe mammaglobin
                                                                                                                                                                                                                                                                                                  (first entry)
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      Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
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Pred. No. 6.8e+02;
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AAZ44350/c
ID AAZ443
XX
AC AAZ443
XX
DT 04-APR
XX
Protei
XX
Antimi
XW
Pophy
XW
Pophy
XW
Uniden
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Uniden
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UN5998
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UN5998
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O7-DEC
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PP 04-APR
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PA (USSH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acetaminophen, and paranitrophenol. Several of the nucleotide changes identified at the polymorphism sites, give rise to an amino acid change. Amino acid changes may result in altered enzyme activity. The sequences can be used as probes for detecting STP2 polymorphisms. The polymorphic probes are used in screening and genotyping, i.e. to predict the rate of metabolism of STP2 substrates, potential drug-drug interactions and adverse side effects. They can also be used to detect diseases resulting from accidental or occupational exposure to toxins and to establish animal, cell or in vitro models for drug metabolism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequences AAZ59305-Z59352 are fragments of the human STP2 gene. fragments are from the 8 exons, the promoter region, 3' and 5' untranslated regions of the STP2 gene. Bach sequence contains a identified STP2 gene single nucleotide polymorphism (SNP). STP2 phenol sulphotransferase. Substrates for STP2 include minoxidil,
                               04-APR-1995;
                                                            04-APR-1995;
                                                                                          07-DEC-1999
                                                                                                                       US5998596-A
                                                                                                                                                   Unidentified
                                                                                                                                                                               pathogenic microorganism; primer;
                                                                                                                                                                                             Antimicrobial; cytostatic; immunosuppressive; protein prophylactic; therapy; treatment; cancer; autoimmune c
                                                                                                                                                                                                                                         Protein kinase inhibiting primer #12
                                                                                                                                                                                                                                                                        04-APR-2000
                                                                                                                                                                                                                                                                                                      AAZ44350
                                                                                                                                                                                                                                                                                                                                  AAZ44350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 2 A; 9 C; 2 G; 8 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel nucleic acid used for genotyping, e.g. to predict rate of drug metabolism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-105892/09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Guida M, Kurth J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                             1195 GAGAAATCAGAGAAAAGGCAGG 1215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                  standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                            GAGAAAGCTGAGATAGGCAGG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                        (first entry)
                                95US-00416214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0088710P.
                                                            95US-00416214.
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/note= "Site of polymorphism"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                   ₽₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                               cancer; autoimmune disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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(USSH) US DEPT HEALTH & HUMAN SERVICES.

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RESULT 487
AAZ75999
ID AAZ75999
XX AAZ759
XX Human
XX Human
KW Human
KW Genomi
KW Amplit
CO Home
XX Cohen
XX (GEST
XX WPI;
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Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention describes novel purified aptameric oligonucleotides which have antimicrobial, cytostatic and immunosuppressive activity. The oligonucleotides are useful for binding to and preventing or inhibiting the biological function of a protein kinase or a target molecule and for detecting the presence or absence of a target molecule in biological samples. The oligonucleotides are also useful for prophylactic and therapeutic treatment of diseases such as cancer, autoimmune diseases and diseases caused by pathogenic microorganisms. This sequence represents a primer used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                              Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; potymorphic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
 AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention
                                                                                                                                                                                                                                      21-APR-1998;
23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                 diagnosis; ss.
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RESULT 488
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Matches 18
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26-JUL-2000;
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                                                                                                                                                                   Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                        (MILL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polymorphism; vascular disease; coronary artery myocardial infarction; atherosclerosis; stroke; pulmonary embolism; paternity test; ds.
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2000US-0220947P.
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The present invention provides a method of diagnosing a vascular diseas in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin genes. The sequences at a number of polymorphic sites are also provided

disease

Example;

Page 163;

242pp;

English

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RESULT 489
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                                                         against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the
                                                                                                                                                                                                                                                                                          response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (pyrrich) or thymidine (T) rich. The method is used to vaccinate subjects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaccinating against tumors, infectious diseases, allergies and using immunostimulatory Py-rich and TG nucleic acids.
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27-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a method for stimulating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF99707;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF99707 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (IOWA ) UNIV I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Immunostimulatory nucleic acid #823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2099 CCTGCACTTGCCTGATGCAGC 2119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 56; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Schetter C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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Y PHARM GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0227436P
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99US-0156135P.
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                                     have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vollmer J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.2; D
Pred. No. 6.8e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                  phosphorothicate
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Best Local 9
                              moieties optionally extended by a polymerase. The branched chain compounds of the invention are used in nucleic acid synthesis reaction, primer extension reaction, reverse transcription reaction of RNA into DNA, nucleic acid hybridization experiment (for identifying sequence of nucleic acid), and nucleic acid amplification experiment (for analysing the expression pattern of genes). The compounds are also used in solid-phase enzymatic reactions. The present sequence was used in the course of the invention to reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21
                                                                                                                    The specification describes branched compounds
                                                                                                                                           Example 1; Page 10; 31pp; English
                                                                                                                                                                 Branched compounds useful in e.g. nucleic acid synthesis reaction comprises nucleic acid moieties optionally extended by a polymerase.
                                                                                                                                                                                                    WPI; 2001-466959/51.
                                                                                                                                                                                                                           Schmidt W,
                                                                                                                                                                                                                                                  (VBCG-) VBC GENOMICS GMBH.
                                                                                                                                                                                                                                                                                      21-DEC-1999;
                                                                                                                                                                                                                                                                                                            21-DEC-1999;
                                                                                                                                                                                                                                                                                                                                   27-JUN-2001
                                                                                                                                                                                                                                                                                                                                                          BP1111068-A1
                                                                                                                                                                                                                                                                                                                                                                                                     misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                         modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Branched chain compound; nucleic acid synthesis; primer extension; reverse transcription; nucleic acid hybridization;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligonucleotide used to produce branched chain compounds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH42480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAH42480
                        invention to produce branched chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5393
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAATACAAAAAAGAAAA 5413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                           Hiller R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      amplification; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                      99EP-00125484.
                                                                                                                                                                                                                                                                                                             99EP-00125484.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                   /note=
                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; 0 C; 0 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                            Huber M,
                                                                                                                                                                                                                                                                                                                                                                                "branch present"
                                                                                                                                                                                                                                                                                                                                                                                                                    b
"NH2-C6 attached"
                                                                                                                                                                                                                                                                                                                                                                                                                                                      "NH2-C6 attached"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
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Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                            Mueller
                         compounds
                                                                                                                                                                                                                            3
                                                                                                                      containing nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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Query Match Best Local Similarity

0.3%;

Sequence 21

BP; 0 A; 0 C; 0 G; 21 T; 0 U; 0 Other;

Matches

Conservative

0,

Score 16.2; DB 1 Pred. No. 6.8e+02 0; Mismatches

Length

21

Indels

0

Gaps

0

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RESULT 491
AAF24290/c
ID AAF242
XX AAF242
XX AAF242
XX Comple
XX Comple
XX DNA ch
XX DNA ch
XX DNA ch
XX DNA ch
XX PF 07-JUN
XX Determ
PT Compan
AAF86496
ID AAF864
XX
AC AAF864
XX
DT 28-JUN
XX
DE PCR pr
XX
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DE PCR pr
XX
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XX
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XX
MO2001
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This involves the measurement of an electric current along the annealed strands compared to a standard. This is useful in the analysis of genetic polymorphisms and variation between genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Determining complementarity of nucleotide fragment for gene analysis, by comparing flow of electric current from or to electroconductive substrate through DNA fragment, with reference obtained from its complement.
     WO200123548-A1
                                                                                                           Gene therapy; RNase; DNA cleavage; enzyme;
                                                                                                                                                                                                                      28-JUN-2001
                                                                                                                                                                                                                                                                          AAF86496;
                                                                                                                                                                                                                                                                                                                           AAF86496 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention provides a method for analysing a nucleic acid strand to determine the degree of complementarity between two sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 12; 28pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Makino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07-JUN-2000; 2000EP-00112235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EP1065278-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Complementary nucleic acid detection method related sequence #5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA chip; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Complementary nucleic acid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (FUJF ) FUJI PHOTO FILM CO LTD.
                                                                                                                                                                 primer M1G7173.rev
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5393 АЛЛАЛАТАСЛАЛАДАДАЛА 5413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAAAATACAAAAAAGAAAA 5413
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Abe Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 1 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ogawa M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                   entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                 used
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                                                                                                                                                                                                                                                                                                                           BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               o,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene analysis; polymorphism; variation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.2; DB 1
Pred. No. 6.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Takagi M,
                                                                                                                                                                 construct mutant RNase P RNA construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Takenaka S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 21;
                                                                                                        PCR primer; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yamashita K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               analysis of genetic
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RESULT 493
AAF86495/c
ID AAF864
XX AAF864
XX AAF864
XX PCR PX
XX Gene t
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XX W29-SEI
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PR 30-SEI
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PA (UYYA
XX AAF864
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a variant RNase P RNA (see AAF86515), that cleaves a DNA substrate with a catalytic efficiency greater than wild-type RNase P RNA. The variant RNase P RNA is useful for cleaving a DNA substrate in a cell, which involves introducing the variant RNase P RNA and a guide sequence that hybridises to the DNA substrate of interest, into the cell, by introducing a vector encoding the variant RNase P RNA and the guide sequence as a single transcript, into the cell. Optionally RNase P protein subunit is also brought into contact with the DNA substrate of interest. The variant RNase P RNA is useful in DNA substrate of interest. The variant RNase P RNA is useful in diagnostic methods for detection, quantitation, or cataloging of DNA sequences, forensic methods, genome dissection methods, biostatistical
                                                   30-SEP-1999;
                                                                                                                                                                                                                        Gene therapy;
                                                                                                                                                                                                                                                                                           28-JUN-2001
                                                                                                                                                                                                                                                                                                                            AAF86495;
                                                                                                                                                                                                                                                                                                                                                          AAF86495 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             methods, and population genetics methods, cleaving genomic DNA at particular sequences, creating gene knockouts by gene cleavege, killing specific cells by specific cleavage of DNA, cleaving pathogen DNA in a host cell, and killing mutant cells by specific cleavage of mutant DNA in the cell. The present sequence is a PCR primer used in the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Variant of RNABE P RNA molecule that specifically cleave DNA with catalytic efficiency greater than its wild-type, useful for DNA detection, quantitation or cataloging, biostatistical methods and forensic methods.
                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                          PCR primer M1G173.fwd used to construct mutant RNase P RNA construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 47; 96pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-328183/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dorit
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                   (UYYA ) UNIV YALE
                                                                                  29-SEP-2000; 2000WO-US026864.
                                                                                                                     05-APR-2001
                                                                                                                                                     WO200123548-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4263 CTTCCACCTCTACCTGATCCC 4283
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 3 A; 10 C; 1 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                        RNase; DNA cleavage; enzyme;
                                                    99US-0156790P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0156790P
                                                                                                                                                                                                                                                                                                                                                          DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                              ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                        PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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RESULT 494
ABS78428/c
ID ABS784
XX ABS784
XX ARS10c
XX ARS10c
XX Argioc
XX A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Variant of RNAse P RNA molecule that specifically cleave DNA with catalytic efficiency greater than its wild-type, useful for DNA detection, quantitation or cataloging, biostatistical methods and
                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP;
                                   Bratzler RL
                                                                                                                                                            14-DEC-2000; 2000US-025534P.
                                                                                                                                                                                                                         14-DEC-2001; 2001WO-US048458.
                                                                                                                                                                                                                                                                                                                                                  WO200253141-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         scleroderma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Angiogenesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABS78428
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  angiofibroma; wound granulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             torensic methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Dorit
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell, and killing cell. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-328183/34.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                   COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTCCACCTCTACCTGATCCC 4283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cole
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inhibitory oligonucleotide #912.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypertrophic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         scar.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 16.2;
Pred. No. 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         intestinal adhesion, atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.8e+02;
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RESULT 495
ABL39404/c
ID ABL394
XX ABL394
XX ABL394
XX Immuno
XX Antibo
KW Angiog
XX Synthe
XX Synthe
XX WO2001
PM WO2001
PM WO2001
XX 22-JUN
XX 22-JUN
XX (IOWA
XX (IOWA
XX Weinel
XX Weinel
XX Treat:
PT admin:
PT devel:
PT devel:
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PX Treat:
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Matches
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                               Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression o cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Antibody-induced cell lysis; cancer; immunostimulatory; CD20; angiogenesis; metastasis; cytostatic; phosphorothioate backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABL39404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inhibiting angiogenesis in a subject, involves administering at least antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-566690/60
                                                                                                   WPI; 2002-154611/20.
                                                                                                                                                                                               22-JUN-2000; 2000US-0213346P
                                                                                                                                                                                                                             22-JUN-2001; 2001WO-US020154.
                                                                                                                                                                                                                                                                                               WO200197843-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Immunostimulatory nucleic acid SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    acid of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
                                                                                                                                                                                                                                                               27-DEC-2001.
                                                                                                                                                                 (IOWA ) UNIV IOWA RES FOUND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAAAAAAAAAAAAAAAAA 1
                                                                                                                                 Hartmann
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               relates to inhibiting angiogenesis in
                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                              /*tag= a
/mod_base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                             "phosphorothioate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840.
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                                 of of
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developing

cancer.

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RESULT 496
AND30438/c
ID AND3043
XX AND304
AC AND304
AC AND304
XX 21-MAY
XX 21-MAY
XX Human;
XW Human;
XW Prosta
XX Homo 8
XX Homo 8
XX 27-JUL
XX 27-JUL
XX 27-JUL
XX 27-JUL
XX 27-JUL
XX Chang
XX (UYRP
PR 27-JUL
XX Chang
XX SHORE
PF 27-JUL
XX ASSESS
PT Subjec
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PT Subjec
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CC Cancer
CC CACR
CC CANCER
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Best Local S
Matches 18
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                             The invention relates to a method for assessing the risk of prostate cancer in a human subject. The method involves determining the length of the contiguous CAG or CAA repeats in both AIBI (Amplified In Breast cancer 1) gene alleles or contiguous CAG, CAA or GGN repeats in the androgen receptor gene of the subject. The method is useful for assessing a subject's risk for acquiring or developing prostate cancer. The present sequence is a DNA encoding human androgen receptor (AR) polyglycine tract. This sequence is used in the molecular analysis and assessment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Assessing the risk of acquiring or developing prostate cancer in subject, comprises determining the length of the contiguous CAG, and/or GGN repeats in the AIB1 gene and/or androgen receptor gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; AIB1; amplified in breast cancer 1; androgen receptor; AR; prostate cancer; polyglycine; ds.
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                                                                                                                                                                                                                                                                                                                                                              Example
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Best Local S
Matches 18
                                                        comprises detecting tandem repeats in a target coding sequence, scoring the repeats for polymorphic probability and generating a dataset correlating the repeats with polymorphic probability to identify a candidate polymorphic repeat. The computational methods (polymorphic marker prediction of ubiquitous simple sequences, POMPOUS, and Rep-X) are useful for identifying and detecting candidate polymorphic repeats in human genes, which can be used to understand, treat or eliminate genetic diseases, predispositions or adverse drug-treatment reactions. Examples of diseases linked to nucleotide repeats are Machado-Joseph, Haw River syndrome, Huntington's disease, fragile-X syndrome, Fredreich's ataxis, myotonic dystrophy, hyperandrogenaemia, spinal and bulbar atrophy and spinocerebellar ataxia. The sequences presented in ABX79676-ABX80022 are the polymorphic repeats identified for a search of human ESTs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST; expressed sequence tag; ss; polymorphic repeat; tandem re; polymorphic marker prediction of ubiquitous simple sequences; polymorphic marker prediction of ubiquitous simple sequences; Rep-X; human; genetic disease; drug-treatment; Machado-Joseph; Haw River syndrome; Huntington's disease; fragile-X syndrome; Fredreich's ataxis; myotonic dystrophy; hyperandrogenaemia; spinal atrophy; bulbar atrophy; spinocerebellar ataxia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying a candidate polymorphic repeat within a coding sequence, understanding or treating genetic disease, comprises detecting tande repeats in a target coding sequence and scoring the repeats for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Garner HR, Wren JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention discloses a method for identifying a candidate polymorphic repeat within a coding sequence (expressed sequence tag, EST), which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example; Col 495; 588pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeats in a target codi
polymorphic probability.
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Pred. No. 6.
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Query Match Best Local S Matches 18

Similarity

85.7%; 0.3%;

Score 16.2; DB 1; Pred. No. 6.8e+02;

Length 21;

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Gaps

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Mismatches

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                                                                                                                                                                                                                                                                                                           The invention relates to a method for assessing a condition of a CC performance animal. The method involves determining in sample abundance CC of expressed target nucleic acid; transmitting digital sample signal to CC remote diagnostic server; processing digital sample signal at remotely located database to correlate digital signal with digital information and CC returning report of particular condition of animal. The method is useful for assessing a condition of a performance animal preferably human, dog CC or camel. The condition on be an athletic ability and a condition that CC enhances, hinders, impedes or does not change an expected ability of the CC gerformance animal; and also normal, pre-clinical, overt progress and/or CC targe, response to exercise, response to vaccines, therapies, mutritional CC invention include laminitis, response to vaccines, therapies, mutritional CC invention include laminitis, sampless, viral or bacterial disease, CC gastritis, gastric ulcers, respiratory allments, fractures, epistexxis, CC musculoskeletal damage or disorders and joint diseases. The present CC sequence is a primer used to illustrate the method of the invention
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                                                                                                                       Query Match
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Matches 18
                                                                                                                                                                                                                                                     Sequence 21 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Assessing condition e.g. athletic ability, stage of disease, presence of drugs, response to exercise, response to vaccines, therapies, nutritional states, of performance animal involves analyzing nucleic acid expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200290579-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 46; 87pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-120558/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-MAY-2001;
29-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-MAY-2002; 2002WO-AU000553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD51323;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENO-) GENOMICS RES PARTNERS PTY LTD
                                                         5393 AAAAAAATACAAAAAAGAAAA 5413
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                                                                                                                                                            Similarity
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                                                                                                                          Conservative
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2001US-00896941.
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                                                                                                                                                                                                                                                        A; 0 C; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                     0.3%;
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                                                                                                                          0,
                                                                                                                                                                                                                                                        9
                                                                                                                                                         Score 16.2;
Pred. No. 6.
                                                                                                                                                                                                                                                           21 T; 0 U; 0 Other;
                                                                                                                             Mismatches
                                                                                                                                                            6.8e+02;
                                                                                                                                                                                       DB 1;
                                                                                                                                                                                           Length
                                                                                                                             Indels
                                                                                                                          0
                                                                                                                          Gaps
                                                                                                                          0
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RESULT 499

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RESULT 500
ACH03246/c
ID ACH032
XX ACH032
XX ACH032
XX IMMUNO
XX Synthe
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                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to stereoselective preparation of 2,3 dihydroxycarboxylic acids and derivatives and invovles hydrolysis of a epoxycarboxylic acids or derivatives in the presence of a polypeptide having epoxide hydrolase activity. The 2,3 dihydroxycarboxylic acids a used as chiral building blocks for more complex biologically active compounds. The reaction conditions are mild and the recemble epoxide starting materials are readily available. The present sequence represent appropriate for amplifying an epoxide hydrolase cDNA from R. araucari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stereoselective preparation of 2,3-dihydroxycarboxylic acids, useful as chiral building blocks, comprises hydrolysis of 2,3-epoxycarboxylic acids in the presence of a polypeptide having epoxide hydrolase activity.
                                antiulcer; gene therapy; vaccine; non-allergic inflammatory disea psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease;
                                                                                                          Immunostimulatory nucleic acid #881.
                                                                                                                                        25-SEP-2003
                                                                                                                                                                     ACH03246;
                                                                                                                                                                                                    ACH03246 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 21 BP; 2 A; 8 C; 4 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 7; 19pp; English.
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Verdoes JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-SEP-2001; 2001EP-00120796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hydrolysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stereoselective;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACC48167 standard; DNA;
                                                                             Immunostimulatory; antiinflammatory; dermatological; antipsoriatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-SEP-2001; 2001EP-00120796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (FARB ) BAYER AG.
(KERJ ) FORSCHUNGSZENTRUM JUELICH GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  araucariae epoxide hydrolase cDNA amplifying primer P60315N
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                                                                                                                                                                                                                                                                                                            293 CTTCCAGTGTCTTGCAGGCCC 313
                                                                                                                                                                                                                                                                              1 CTTGCAGTGTCTTCCATGCCC 21
                                                                                                                                                                                                                                                                                                                                                                                                                                       CBS 6031
                                                                                                                                                                                                                                                                                                                                                         Similarity
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Weijers CAGM, Visser JH, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tive; 2,3 dihydroxycarboxylic acid; 2,3-epoxycarboxylic ac epoxide hydrolase; chiral building block; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                       (first entry)
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                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                         0,
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Pred. No. 6.
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                                                                                                                                                                                                                                                                                                                                                                          DB 1;
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                                                                                                                                                                                                                                                                                                                                                                          Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       cDNA from R. araucariae
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RESULT 501
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ID ADB372
XX ADB372
XX ADB372
XX Immunc
XX Immunc
XX Impo-I
XX Synthe
PN US2003
XX U
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid
                           WPI; 2003-657977/62
                                                                               Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADB37209 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 33; 229pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-521815/49.
                                                                                                                                                               (BRAT/)
(PETE/)
                                                                                                                                                                                                                                            03-FEB-2000; 2000US-0179991P
                                                                                                                                                                                                                                                                                             02-FEB-2001; 2001US-00776479.
                                                                                                                                                                                                                                                                                                                                                       08-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                        US2003087848-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory nucleic acid #823.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADB37209;
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                                                                                                                                   FOUR/)
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(BERG/) BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
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                                                                                                                                                               BRATZLER R L.
PETERSEN D M.
                                                                                                                                      FOURON
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                  Petersen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
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                                                                                  M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunostimulatory nucleic
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FFX8X000000X8 Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament. Disclosure; Page 17; 221pp; English.

The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The methods and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represents an immunostimulatory nucleic acid of the invention.

Sequence 21 BP; 0 A; 0 C; 0 G; 21 T; 0 U; 0 Other;

Matches Query Match Best Local 18; Similarity Conservative 0.3%; <u>.</u> Score 16.2; DB 1; Pred. No. 6.8e+02; Mismatches Length Indels 21; 0, Gaps 0

문 S 5393 АЛАЛАЛАТАСАЛАЛАДАЛАЛ 5413 21 AAAAAAAAAAAAAAAAAAA 1

ADJ92252; 06-MAY-2004 ADJ92252 standard; (first DNA; entry 21

Human hair keratin-associated-protein PCR primer P3 SEQ ID NO:111

hair; keratin-associated protein; KAP; human; keratin; toiletry; therapeutic; hair growth promoter; hair disorder; PCR; primer; s

Synthetic

WO2003042387-A1

22-MAY-2003

13-NOV-2002; 2002WO-JP011851.

13-NOV-2001; 2001JP-00348050.

(NIPR-) UNIV KEIO.

JAPAN SOC PROMOTION SCI

(UYKE-)

Shibuya K, Shimizu z

WPI; 2003-493307/46.

DNAs encoding 39 Keratin-associated proteins localized on human chromosome 21, useful for screening binding and expression modifiers and as cosmetic and therapeutic agents for hair disorders.

Example 3; SEQ ID NO 111; 352pp; Japanese.

RESULT 502
ADJ92252
ADJ92252
AC ADJ922
XX ADJ922
XX ADJ922
XX Homo E
OS Human
XX Homo E
OS Synthe
XX WO2003
XX WO2003
XX HOMO E
PT L3-NOV
XX I3-NOV
XX I3-NOV
XX I3-NOV
XX DNAs
PT Chrome
PT Chrome The present invention describes DNAs encoding hair keratin-associated proteins (KAP) of human origin, which bind to hair keratin. Also described: (1) DNA encoding KAPs of mouse origin; (2) proteins encoded by the human and mouse DNA, and their partial peptides, and proteins derived from them by addition, deletion and/or substitution of one or more amino acid residues; (3) DNA hybridiaing to the DNA encoding KAP; (4) peptides SCCXPSCCXP (1), where X = Q, V, R or I, and YGGXGYGSGY (II), where X = Y, L or F; (5) fusion proteins and peptides containing these proteins and peptides together with a marker protein or peptide; (6) antibodies to the proteins and peptides; (7) recombinant proteins and peptides binding to these antibodies; (7) recombinant proteins and peptides binding to these antibodies; (8) expression vectors containing the DNA encoding KAP; (9) host cells transformed by these vectors; (10) non-human animals which are knockout animals for KAP or which overexpress KAP; (11) screening

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RESULT 503
ADKO1309/c
ID ADKO13
XX Rat DN
XX Rat UN
XX PEB
XX DE1020
XX CDEGS
XX (DEGS
XX
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Best Local Similarity
Matches 18; Conserv
This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, metal, resin, gel, crystalline material and/or membrane, having semi-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              substances promoting or inhibiting the binding of KAP to hair keratin, oppromoting or inhibiting the expression of KAP, comprising using KAP or their partial peptides or cells expressing them; (12) compounds identified by the screening method; and (13) tolletry and therapeutic compositions containing these compounds, or containing KAP or their partial peptides or (I) or (II), expression vectors for them, or host cells peptides or (I) or (II), expression vectors for them, or host cell promoters. The KAPs are useful as active ingredients in tolletry compositions (such as hair and beard growth improvers, hair colourants and hair conditioners) and in therapeutic compositions for hair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example; Page 5; 8pp; German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Boekenkamp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-FEB-2002; 2002DE-01008794.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DE10208794-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  blood; nerve;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ss; hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rat DNA microarray
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 5 A; 10 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2002; 2002DE-01008794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (DEGS ) DEGUSSA BIOACTIVES GMBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            constant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3935 AGATCAACCCACAGCACAGCT 3955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2003-714082/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gp.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTCAACCCCCAGCACGGCT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tion; capture oligonucleotide; pattern; mucosal; hair root;
germ cell; food additive; food supplement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dieck HT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         capture oligonucleotide #29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hoppe H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 16.2; DB 1.
Pred. No. 6.8e+02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ű,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  õ
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888888888888888888888
                                              conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, thair root, blood, nerve or germ cells and (ii) for determining the activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and mixtures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acid from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, and can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ADK01281-ADK01344 represent
Sequence 21
BP, 1 A, 0 C, 1 G, 19
      T; 0 U; 0 Other;
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S
                      Query Match
Best Local S
Matches 18
                               Local Similarity
  5400 ТАСАЛАЛАЛАЛАЛАЛАТGAЛА 5420
                       Conservative
                               0.3%;
                      0,
                               Score 16.2; DB 1
Pred. No. 6.8e+02
                        Mismatches
                                           DB 1;
                                         Length
                        Indels
                                           21,
                        <u>.</u>
                        Gaps
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21

TACAAAAAAAAAAAAAAAA 1

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ADKO134/c
ID ADKO13
XX ADKO13
AC ADKO13
XX Set DN
XX Set DN
XX Set DN
XX Set DN
XX BS; hy
XX DESC
PF 28-FEB
XX DEGS
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rat DNA microarray capture oligonucleotide #64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADK01344;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADK01344 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         capture oligonucleotide;
cell; food additive; food
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pattern; mucosal; hair root;
d supplement.
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Rattus sp. nerve; germ

DB10208794-A1

04-SEP-2003

28-FEB-2002; 2002DE-01008794.

(DEGS) DEGUSSA BIOACTIVES GMBH

28-FEB-2002; 2002DE-01008794.

Ġ Dieck HT, Hoppe Ή

WPI; 2003-714082/68.

and constant regions. Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable

Page 6; ; dd8 German.

This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region

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cc comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, expected in the form of a chip. Its surface conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, hair root, blood, nerve or germ cells and (ii) for determining the carivity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic caids (amino, carboxylic or fatty acid) or their derivatives, salts and caids (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fatty acid) or their derivatives, salts and cardias (amino, carboxylic or fat
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8
                               Matches
                               Sequence
                Local Similarity
 5393
           18;
AAAAAATACAAAAAGAAA 5413
                              21 BP; 0 A; 0 C; 0 G; 21 T; 0 U; 0 Other;
           Conservative
               85.7%;
                Score 16.2;
Pred. No. 6
           Mismatches
               6.8e+02
                     DB 1;
                     Length
           Indels
                     21;
           <u>,</u>
```

밁

21

AAAAAAAAAAAAAAAAAA 1

RESULT 505
ADXO1284/c
ID ADXO12
XX ADXO12
XX ADXO12
XX O6-MAY
XX Ss; hy
XX Ss; hy
XX SS Rattus
XX DE O4-SEE
XX D2-FEE
XX D2-FE 06-MAY-2004 ADK01284 standard; DNA microarray (first entry) DNA; capture oligonucleotide 21 쁌

blood; nerve; hybridisation; germ capture oligonucleotide; pattern; mucosal; hair root; cell; food additive; food supplement.

ds

DE10208794-A1

28-FEB-2002; 2002DE-01008794.

28-FEB-2002; 2002DE-01008794.

(DEGS) DEGUSSA BIOACTIVES GMBH

Boekenkamp 2003-714082/68. Ď Dieck HT,

Hoppe

Ξ

Sorting single-stranded nucleic acid, patterns and screening active agents, useful for analyzing expression uses capture agent with variable

Page 4; gpp;

This invention describes a novel method for sorting single-stranded nucleic acids by isolation and hybridisation of nucleic acid pools, then reading out, where the nucleic acids are selectively bound using capture agents that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides

Comprises a sequence of 10-50, particularly 15-25, T residues. The Compute oligonucleotides are biotinylated and immobilised on a surface by CC interaction with streptavidin. The matrix is of plastic, ceramic, glass, CC metal, resin, gel, crystalline material and/or membrane, having semi-cc conducting properties and especially in the form of a chip. Its surface CC is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, CC physical, stimulated by an electrical field or through a molecular sieve. CC me method is used (l) for analysis of patterns, especially in mucosal, CC chair root, blood, nerve or germ cells and (il) for determining the CC additives or supplements, especially minerals, trace elements, organic CC acids (amino, carboxylic or fatty acid) or their derivatives, salts and CC mixtures. The method provides rapid, inexpensive and reproducible callows imaging of the complete pattern of all nucleic acid in a cell, and CC and the based on comparison of nucleic acid pools, Since the method is based on comparison of nucleic acid pools, Since the compens, matrix miniaturisation is possible. ADX01281-ADX01344 represent least once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture agents are particularly locked nucleic acids (LNA) and the anchor region probes used in the method of the invention.

Sequence 21 BP; 2 A; 0 C; 0 G; 19 T; 0 U; 0 Other;

Query Match Best Local (Matches Similarity Conservative 0.3%; 0; Score 16.2; DB 1; Pred. No. 6.8e+02; Mismatches DB 1; Length Indels 21; 0, Gaps 0

밁 S 5390 21 ATTAAAAAATACAAAAAAA 5410

ADXO1341/c
ID ADXO13
XX
AC ADXO13
AC ADXO13
XX
DT 06-MAY
XX
DE Rat DN
XX
Ss; hy
KW blood;
XX
Rattus
XX
DE1020
XX
CR
PD 04-SEP
XX
PR
28-PEB
XX
PR
28-PEB
XX
DEGS
XX
PR
DEGG
XX
PR

ADK01341 standard; DNA; 21 BP

ADK01341;

06-MAY-2004 (first entry)

DNA microarray capture oligonucleotide

ss; hybridisation; blood; nerve; germ nerve; capture oligonucleotide; pattern; mucosal; cell; food additive; food supplement. supplement

DE10208794-A1

04-SEP-2003

28-FEB-2002; 2002DE-01008794.

28-FEB-2002; 2002DE-01008794.

(DEGS) DEGUSSA BIOACTIVES GMBH.

Boekenkamp D, 2003-714082/68. Dieck HT,

Sorting single-stranded nucleic acid, patterns and screening active agents, constant regions. screening useful for analyzing expression uses capture agent with variabl uses capture agent variable

Example; Page 6; 8pp; German.

This invention nucleic acids k describes a novel method for a solution and hybridisation sorting single-stranded
n of nucleic acid pools, then

A Contract of

Sequence 21 BP; 1 A; 0 C; 0 G; 20 T; 0 U; 0 Other;

밁 Matches Query Match Best Local Similarity 5392 TAAAAAATACAAAAAAGAAA 5412 18; 21 TAAAAAAAAAAAAAAAAA 1 Conservative 0.3%; 85.7%; 0, Score 16.2; DB 1; Pred. No. 6.8e+02; Mismatches DB 1; Length 21; 3; Indels 0 Gaps

RESULT 507
ADK01329/c
ID ADK013
XX ADK013
XX ADK013
XX ADK013
XX AC ADK013
XX BA T DN
XX DE1020
XX DE1020
XX DE1020
XX DE1020
XX DE50EB
XX DE6EB
X 06-MAY-2004 (first entry) ADK01329 standard; DNA; 21 BP

Rat DNA microarray capture oligonucleotide #49.

ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

04-SEP-2003. DE10208794-A1

28-FEB-2002; 2002DE-01008794.

28-FEB-2002; 2002DE-01008794.

(DEGS) DEGUSSA BIOACTIVES GMBH

Boekenkamp Dieck HT, Hoppe H

2003-714082/68

Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable and constant regions.

Example; Page 5; 8pp; German.

This invention describes a novel method for sorting single-stranded concleic acids by isolation and hybridisation of nucleic acid pools, then compared that are (a) immobilised on the surface of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides have a 5'-invariable anchor region, the complement of which is present at cell least come in each nucleic acid and a 3'-variable, discriminatory region comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture capture oligonucleotides to allow that comprises a sequence of 10-50, particularly 15-25, T residues. The capture comprises a sequence of 10-50, particularly 15-25, T residues. The capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is stranded nucleic acids to the surface is (quasi) covalent, supramplecular, computed and insubilised on a surface of physical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, cardistives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and cardistives. The method provides rapid, inexpensive and reproducible cardis based on comparison of nucleic acid pool. Since the capture probes used in the method of the nucleic acid pool. Since the capture probes used in the method of the house of the invention. capture probes used in the method of the invention.

Sequence 21 BP; 2 A; 0 C; 0 G; 19 T; 0 U; 0 Other;

0

Query Match Best Local : Matches Similarity Conservative 0.3%; Score 16.2; DB 1; Length 21; 85.7%; Pred. No. 6.8e+02; 0; Mismatches Indels 0, Gaps 0

밁 S 5391 TTAAAAAATACAAAAAAGAA 5411 21 TTAAAAAAAAAAAAAAAAAA 1

RESULT 508
ADKO1336/c
ID ADKO13
XX ADKO13
XX ADKO13
XX O6-MAY
XX S8; hy
KW S8; hy
KW S8; hy
KW Blood;
XX Rattus
XX Rattus
XX PD D2020
XX PEB
XX D2-FEB
XX DEGS
XX DEGS
XX AWPI; 2
XX WPI; 2

ADK01336 standard; DNA; 21 ₽P

ADK01336;

06-MAY-2004 (first entry)

Rat DNA microarray capture oligonucleotide #56.

ss; hybridisation; capture oligonucleotide; pattern; mucosal; hair root; blood; nerve; germ cell; food additive; food supplement.

DE10208794-A1.

04-SEP-2003.

28-FEB-2002; 2002DE-01008794.

28-FEB-2002; 2002DE-01008794.

DEGUSSA BIOACTIVES GMBH.

Boekenkamp D, Dieck HT, Hoppe H;

WPI; 2003-714082/68

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RESULT 509
ADJ13120/c
ID ADJ131
XX ADJ131
AC ADJ131
XX Probe;
XW Probe;
XW Eumoux
XX Homo 8
XX US2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC nucleic acids by isolation and hybridisation of nucleic acid pools, then comprise variable and non-variable regions. The capture of a solid matrix and (b) comprise variable and non-variable regions. The capture oligonucleotides comprise variable anchor region, the complement of which is present at cleast once in each nucleic acid and a 3'-variable, discriminatory region that comprises all possible combinations of up to 10 nucleotides to allow binding of particular sorts of single stranded nucleic acids. The capture capture oligonucleotides to allow comprises a sequence of 10-50, particularly 15-25, T residues. The capture capture oligonucleotides are biotinylated and immobilised on a surface by interaction with streptavidin. The matrix is of plastic, ceramic, glass, conducting properties and especially in the form of a chip. Its surface is particularly a layer of (bio)molecular filaments and binding of single stranded nucleic acids to the surface is (quasi)covalent, supramolecular, bhysical, stimulated by an electrical field or through a molecular sieve. The method is used (i) for analysis of patterns, especially in mucosal, capture of pharmaceuticals and/or nutritional commounds. e.g. food
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            activity of pharmaceuticals and/or nutritional compounds, e.g. food additives or supplements, especially minerals, trace elements, organic acids (amino, carboxylic or fatty acid) or their derivatives, salts and mixtures. The method provides rapid, inexpensive and reproducible representation of differences in pools of nucleic acids from cells. It allows imaging of the complete pattern of all nucleic acid in a cell, ar can detect very small differences in the nucleic acid pool. Since the method is based on comparison of nucleic acid pools, not individual genes, matrix miniaturisation is possible. ADK01281-ADK01344 represent
                                                                                                                                                                                                                                                                                            probe; ss; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                      27-JUN-2001; 2001US-0301370P
                                                                                                                  27-JUN-2002; 2002US-00184085
                                                                                                                                                              14-AUG-2003
                                                                                                                                                                                                           US2003152950-A1
                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                Human DNA probe used to immobilise CpG methylated DNA SeqID 247.
                                                                                                                                                                                                                                                                                                                                                                                                               20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADJ13120;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ13120 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example; Page 6; 8pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sorting single-stranded nucleic acid, useful for analyzing expression patterns and screening active agents, uses capture agent with variable
    (GARN/) GARNER H R. (MINN/) MINNA J D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5401 АСААААААБАААААТБАААА 5421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention describes a novel method for sorting single-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probes used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BP; 0 A; 0 C; 1 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       дB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and
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RESULT 510
ADM96310/cc
ID ADM963
XX ADM963
XX ADM963
XX IT-JUN
XX Human
XX ISOFOX
XX Synthe
PN US2003
XX US2003
XX O9-MA1
XX (SCHR/PA (CHEN/PA (SCHR/PA (SCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Analysis of chemical modification to be analyzed, treating DNA with different base sequences, and dete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Garner HR, Minna JD,
Enriching low abundance polynucleotides in a sample, useful for gene expression analysis, comprises exposing the sample to an enzymatically non-extendable nucleobase oligomer to block polymerase activity on high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human ATP5F1 gene, RT-PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM96310;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; SEQ ID NO 247; 210pp; English.
                                                                                                                         WPI; 2003-901581/82.
                                                                                                                                                                                                                                                                                                                                                                09-MAY-2002; 2002US-00144179
                                                                                                                                                                                                                                                                                                                                                                                                                        09-MAY-2002; 2002US-00144179.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003211483-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADM96310 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (LUEB/) LUBBKE K J. (BALO/) BALOG R P.
                                                                                                                                                                                                                                                                            (SCHR/) SCHROEDER B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  isoform 1; ATP5F1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; H+ transporting; mitochondrial ATP synthase; subunit form 1; ATP5F1; reverse transcriptase; RT-PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2432 TGGAGGATGAGAAGGGGAGAG 2452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003-874843/81
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                                                                                                                                                                                                                                            SCHROTH G P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGATGGATGAGAGGGGGAGAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry
                                                                                                                                                                                 Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85.7%;
                                                                                                                                                                                 ú
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12 C; 0 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Luebke KJ,
                                                                                                                                                                                       Schroth GP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fication of DNA involves obtaining sample of DNA DNA with chemical reagents that result in and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  世.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Balog RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6.8e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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abundance species

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RESULT 511
ADJ88057/c
ID ADJ880
XX ADJ880
XX ADJ880
XX O6-MAY
XX DE RT pri
XX Select
KW Select
KW Sel
XX Uniden
XX Unsen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CC polymiclectide under complementary to a sequence within the high administrating occurs, and conditions for polymerase extension. Preferably, CC the enzymatically non-extendable nucleobase oligomer does not have a condition of the sequence within collectide and polymerase extension. Preferably, CC modified and oligomer or is a modified nucleotide oligomer in selected from 2'-cc modified and 3'-modified nucleotide oligomers. The colligomer is selected from 2'-cc modified nucleotide oligomer are selected from 2'-cc modified nucleotide oligomers are selected from 2'-cc modified nucleotide oligomers are selected from 2'-cc nucleotide oligomers are selected from 2'-cc nucleotide oligomers are selected from 2'-cc oligomers. The modified nucleotide oligomers are 2'-co-alkyl modified analogue coligomers. The modified nucleotide oligomers or internucleotide analogue coligomers. The modified nucleotide oligomer or internucleotide analogue coligomers. The modified nucleotide oligomers in the first analogue coligomers. The coligomers in the first analogue coligomers is chimeric. The sample comprises more than one high abundance coligomers oligomers. The enzymatically non-extendable nucleobase 'conjugomer is chimeric. The sample comprises more than one high abundance comprises transcription to yield a first strand cDNA. The method further comprises an amplification step, which is by comprises transcription. The RNA is comprises transcription. The RNA is comprises that the collidar RNA. The method further comprises in a maplification step, which is by comprises are extension is by NN-dependent to amplification. The RNA is comprise transcription is exposed to the comprises in a sequence represent a reverse transcriptae (RT)-PCR primer which cannot be applied to analysing gene expression and in creating cDNA libraries. The could be used in analysing gene expression and in creating cDNA libraries. The could be used in analysing sense expression of the subunit B of the H+ creating cDNA libraries. The could be applied to the co
                                                                                                                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 21 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotide in a sample of polynucleotides comprising a low abundance polynucleotide. The method comprises exposing the and a high abundance polynucleotide. The method comprises exposing the and a high abundance polynucleotide.
    US2004014105-A1
                                                                                                                                                         RT primer used in the synthesis of an artificial gene transcript.
                                                                                                                                                                                                       06-MAY-2004
                                                                                                                                                                                                                                                   ADJ88057;
                                              Unidentified
                                                                                                               Selective enrichment;
                                                                                                                                                                                                                                                                                             ADJ88057 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 20; 43pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                      5393 AAAAAAATACAAAAAAGAAAA 5413
                                                                                                                                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to an enzymatically non-extendable nucleobase oligomer having a base sequence complementary to a sequence within the high abundance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; 0 C; 0 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
85.7%;
                                                                                                               gene expression; RT; reverse transcriptase; primer;
                                                                                                                                                                                                                                                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       method of enriching a low abundance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 16.2; DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    comprising a low abundance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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ADM07216/c
ID ADM072
XX
AC ADM072
XX
AC ADM072
XX
DOUDle
XX
CONTO
XX
CONA 8
KW CONA 8
KW CONA 8
KW CONA 9

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 512
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Matches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to methods for the selective enrichment of low abundance polymucleotides. The invention is useful for analysing gene expression in a sample and creating cDNA libraries. The present sequence is reverse transcriptase (RT) primer used in the synthesis of an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Enriching low abundance polynucleotide relative to a high abundance polynucleotide in a sample, for analyzing gene expression and creat cDNA libraries, comprises blocking polymerase activity on high abun
                                                                                                                                                     (CHEN/)
(SCHR/)
(BRAN/)
(SCHR/)
                                                                                                                                                                                                                                                                                   23-OCT-2002; 2002US-00278760
                                                                                                                                                                                                                                                                                                                                  23-OCT-2002; 2002US-00278760
                                                                                                                                                                                                                                                                                                                                                                                         29-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                     US2004081962-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Double-stranded cDNA synthesis; cDNA first strand synthesis; cDNA second strand synthesis; RNA template; RNA amplification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Control primer used in cDNA first strand synthesis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM07216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM07216 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 0 A; 0 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    is reverse transcriptase in artificial gene transcript.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polynucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-121562/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schroeder BG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-MAY-2002; 2002US-00144179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-MAY-2003; 2003US-00435489.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-JAN-2004
                                                       WPI; 2004-340131/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; SEQ ID NO 41; 62pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SCHR/) SCHROEDER B (CHEN/) CHEN C. (SCHR/) SCHROTH G P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5393 AAAAAATACAAAAAAGAAAA 5413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                     SCHROBDER B.
BRANDIS J.
SCHROTH G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                      Schroeder B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ņ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                      Brandis J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Schroth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 16.2; DB 1;
Pred. No. 6.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             မှ
                                                                                                        Schroth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>,,</u>
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Synthesizing double-stranded cDNA, by synthesizing a cDNA strand from

RNA

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RESULT 513
AAQ57215/c
ID AAQ572
XX AAQ572
XX AAQ572
XX AAQ572
XX Enzyma
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KW Specif
KW Inhibi
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XX Synthe
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XX Sulliv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local Similarity
                                                                                                                                07-DEC-1992;
07-DEC-1992;
07-DEC-1992;
19-JAN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         template, :
                                             Sullivan
                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Specific; cleavage; target RNA; protein; prophylaxis; expression; inhibitor; inhibition; ribozyme; treatment; prevention; psoriasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2003
26-JUL-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         using the
                                                                                                                                                                                                                      17-JUL-1992;
                                                                                                                                                                                                                                                                   02-JUL-1993;
                                                                                                                                                                                                                                                                                                                                                       WO9402595-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                          hypertension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 asthma; inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Enzymatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ57215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAQ57215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               stranded cDNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to a method for synthesising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; SEQ ID NO 2; 19pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5393
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21
                                                                                          RIBOZYME PHARM INC
                                               MS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          АЛАЛАЛАТАСАЛАЛАДСАЛА 5413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21 BP; 0 A; 0 C; 0 G; 21 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNA molecule stromelysin mRNA target sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cDNA as template in the presence of processive DNA polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  removing the template and synthesizing double-stranded cDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                          primers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (revised)
(first en
                                               Draper KG
                                                                                                                                92US-00916763.
92US-00987132.
92US-00989848.
92US-00989849.
93US-00008895.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             by synthesising first cDNA strands in a first
                                                                                                                                                                                                                                                                   93WO-US006316.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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No. 6.8e+02;
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RESULT 514
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Best Local S
Matches 18
                                                          The sequences AAQ93462-Q93494 are examples of target cleavage sequences for a hammerhead ribozyme with sequence motif AAQ90453. A ribozyme, pref. hammerhead, hairpin, hepatitis delta virus, group 1 intron or RNAse PRNA motif can be used in a composition for the treatment of arthritis, cancer or angiogenesis. The ribozyme comprises between 5-45 bases complementary to the target mRNA. The ribozymes (see AAQ93830-51 for examples) were synthesised based on putative stromelysin mRNA target cleavage sequences (AAQ93496-Q93829). (Updated on 25-MAR-2003 to correct PN field.)
     Sequence
                                                                                                                                                                                                                                                                                                                                                                         New enzymatic RNA molecules - which cleave mRNA of a gene encoding a matrix metalloproteinase, for treating arthritis, cancer or angiogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ93472 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Draper KG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hammerhead
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAQ93472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This is a stromelysin mRNA target sequence (nucleotide no. 455) of an enzymatic RNA molecule (ribozyme) which cleaves mRNA associated with the development or maintenance of osteoarthritis or other pathological conditions which are mediated by metalloproteinase activation. The concn. of the ribozyme necessary to effect a therapeutic treatment is lower than that of an antisense oligonucleotide and the specificity of action is higher. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enzymatic RNA inflammatory,
                                                                                                                                                                                                                                                                                                               Disclosure; Page 18; 70pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9513380-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hammerhead ribozyme motif; arthritis; cancer; angiogenesis; hairpin;
hepatitis delta virus; group 1 intron; RNAse P RNA; stromelysin; ss.
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06-DEC-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1995-194099/25.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACCTCTTCCCAGACTTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ribozyme target sequence #11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pavco P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP; 7 A; 2 C; 9
  BP; 7 A; 2 C; 9 G; 0 T; 4 U; 0 Other;
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(first en
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 93US-00152487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94WO-US013129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mcswiggen J,
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Pred. No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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RESULT 515
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The present invention describes a novel enzymatic nucleic acid (ENA) thaving a hammerhead motif (HM) comprising: (1) at least 5 ribose residues (1) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's can inhibit collagenase and stromelysin production in the synovial membrane of joints for the treatment or prevention of arthritis, construintly osteoarthritis or rheumatoid arthritis. The ENA's can also be used to treat antigen presenting cells of a donor to induce tolerance in a recipient to an alloantigen of a donor. They can also be used for cenhancing graft tolerance or for treating autoimmune disease, and for treating allergies and other inflammatory conditions. The ENA's can also be used in diagnosis. Ribozyme therapy impacts on the expression of stromelysin without introducing the non-specific effects upon gene correct introducing the non-specific effects upon gene introducing the concentration of ribozyme required to affect a therapeutic treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 18; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-DEC-1994;
23-DEC-1994;
23-DEC-1994;
17-FEB-1995;
20-APR-1995;
02-MAY-1995;
04-MAY-1995;
07-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mcswiggen
Karpeisky
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enzymatic nucleic acid molecules having a hammer-head motif - the treatment of arthritis, induction of graft tolerance or to auto-immune diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Beigelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9618736-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Arthritic condition; graft tolerance; immune response; target; cl hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; coll stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAX63379 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 139; 307pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1996-300653/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rheumatoid arthritis; autoimmune disease; allergy; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human stromelysin hammerhead target SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAX63379;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               104 CACCTCTTCTCAGCCTTGCAG 124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ilarity 85.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Stinchcomb DT,
Gustofson J, U
Thompson JD, M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
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94US-00363253
94US-00390850
95US-00496124
95US-00434509
95US-00434509
95US-0000951P
95US-0000951P
95US-0000951P
95US-0000951P
95US-00512861
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Usman N, Wincott F, I Modak A, Burgin A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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0; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO:11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , Pavco P;
Matulic-Adamic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      target; cleavage;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       f - used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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                                                                                                                                                                                                                                                                                                    ose residues
ii) at least
The ENA's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             얁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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RESULT 51
ABK64865
AD ABK6
AC 
                                                       Query Match
Best Local S
Matches 18
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                      The invention relates to a new antisense compound (I) up to 50 nucleobases in length and which specifically hybridises with a nucleic acid encoding breast tumour amplified kinase (BTAK) and inhibits the expression of BTAK. (I) is useful for inhibiting the expression of BTAK in human cells or tissues and for treating an animal, particularly a human suspected of having or being prone to a disease or condition associated with expression of BTAK. (I) is useful for diagnostics, therapeutics, prophylaxis and as research reagent and kits. (I) is useful prophylactically to prevent or delay infection, inflammation or tumour formation. ABK64908 represent human BTAK coding sequences, antisense oligonucleotides and related primers of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is lower than that required of antisense molecules, and is highly specific. The present sequence is used in the exemplification of present invention
                                                                                                                                                                        Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense compounds targeted to nucleic acids encoding breast tumor amplified kinase, useful for modulating gene expression and treating diseases associated with expression of breast tumor amplified kinase in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human breast tumour amplified kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-SEP-2000; 2000US-00660925
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antiinflammatory; primer; 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; BTAK; breast tumour amplified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABK64865;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABK64865 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22 BP; 7 A; 2 C; 9 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002-314704/35
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162 GGGAAGAATCTGAGGAACACA 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 CACCTCTTCCCAGACTTTCAG 1
                                                                                     Similarity
                                                                                                                                                                        BP; 9 A; 2 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Col 42; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Preier SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                               0.3%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
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Pred. No. 6.
                                                                                  Score 16.2; DB 1
Pred. No. 6.9e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            kinase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BTAK) reverse PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
5.9e+02;
                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytostatic;
                                                                                                              Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                             Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tumour;
                                                          0;
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                                                          Gaps
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RESULT 518
ADD69448
ID ADD694
XX ADD694
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XX IS-JAN
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AAL60163
ID AAL601
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                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                   Sequence 22 BP; 9 A; 5 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel polypeptide, termed Novel Gene Expresse in Prostate (NGSP), which is detected in the cells of prostate (NGSP) antibodies are useful in detection assays, in the production of immunoconjugates, such as immunotoxins, which can be used to target prostate cancer. Polypucleotide encoding NGSP, or an NGSP polypeptide can be used for treating prostate cancer and generate an immune response against prostate cancer cells. The present sequence is a PCR primer for amplification of human prostate-specific EST (expressed sequence tag)
   WO2003085133-A2
                                                                                          5' anchored
                                                                                                                                             ADD69448;
                                                                                                                                                                     ADD69448 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; Page 44; 74pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated Novel Gene Expressed in Prostate polypeptide and encoding nucleic acid molecule, useful for diagnosing and treating prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-449573/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pastan
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-NOV-2002; 2002WO-US036648
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel Gene Expressed in Prostate; NGEP; prostate cancer; human; EST; expressed sequence tag; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human prostate-specific EST cluster, CW-1 amplifying primer CW74.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAL60163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAL60163 standard; DNA; 22
                                                                                                                   15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-MAY-2003
                                                              inter-simple sequence repeat; ISSR; SSR; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                            3299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H,
                                                                                                                                                                                                                                   N
                                                                                                                                                                                                                                                                                                                                                               CW-1
                                                                                                                                                                                                                                                          AGCTAGACCTGCAGCAGAACA 3319
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                                                                                                                                                                                                                                                                                      Conservative
                                                                                         (ISSR)-PCR
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                                                                                                                 (first entry)
                                                  rice; 88
                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wolfgang
                                                                                         primer
                                                                                                                                                                     22
                                                                                                                                                                     BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP.
                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                              Score 16.2; DB 1;
Pred. No. 6.9e+02;
                                                                                                                                                                                                                                                                                  Pred. No. 6.70
0; Mismatches
                                                                                          •
                                                                                                                                                                                                                                   22
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                                                                                         SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lee B,
                                                                                          ID 6.
                                                                                                                                                                                                                                                                                                            DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vincent
                                                              primer;
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                                                                                                                                                                                                                                                                                      Indels
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                                                              genotyping;
                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Expressed
                                                              plant;
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RESULT 519
ACHOO645
ID ACHOO6
XX ACHOO6
XX ACHOO6
XX ACHOO6
XX INVERT
DE Mammal
XX INVERT
COS Mammal
XX WO200:
XX I1-AU(
XX I2-FEI
XX I2-FEI
XX HARdg
PF 03-FEI
XX FOER
XX HARdg
XX HARdg
XX WPI;
XX PF Deter
PT Deter
PT Deter
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XX Discl
XX The p
CC The p
CC The p
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel set of inter-simple sequence repeats (ISSR)-PCR primers for genotyping eukaryotes. The primers of the invention may be useful for genotyping diverse genomes of plant and animal systems, in particular for distinguishing Basmati rice varieties from non-Basmati rice varieties and traditional Basmati rice varieties from evolved Basmati rice varieties. The current sequence is that of the
                                                                                                                                                                                                                                                                                                                                                                                                            ACH00645;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22 BP; 10 A; 0 C; 9 G; 3 T; 0 U; 0 Other;
                                     Disclosure; Page 23; 63pp; German
                                                                                                                                    Hardge T,
                                                                                                                                                                                                                                                                        WO2003066891-A2
                                                                                                                                                                                                                                                                                                                                                     Mammalian inverted nipple associated microsatellite PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                     ACH00645 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; SEQ ID NO 6; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New set of inter-simple sequence repeats (ISSR)-PCR primers i
genotyping eukaryotes, useful for genotyping diverse genomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-APR-2002; 2002IN-CH000260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-JAN-2003; 2003WO-IB000041.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-OCT-2003
                                                                Determining predisposition breeding animals comprises
                                                                                                                                                                                         05-FEB-2002; 2002EP-00002632
                                                                                                                                                                                                                  03-FEB-2003; 2003WO-EP001045.
                                                                                                                                                                                                                                              14-AUG-2003
                                                                                                                                                                                                                                                                                                    Mammalia.
                                                                                                                                                                                                                                                                                                                            Inverted nipple; microsatellite; PCR;
                                                                                                                                                                                                                                                                                                                                                                                 12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            animal systems.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-804317/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (DNAF-)
                                                                                                                                                              (FOER-) FOERDERVEREIN BIOTECHNOLOGIEFORSCHUNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anchored
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1174 GAAATCAGAGAAAGAGAGAGA 1194
                                                                                                          2003-671539/63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTAATGAGAGAGAGAGAGA 22
                                                                                                                                    Schellander K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ISSR) - PCR primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FINGERPRINTING
                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                      22
                                                                to inverted nipples useful e.g. for selecting detecting specific microsatellite markers.
                                                                                                                                     Wimmers
                                                                                                                                                                                                                                                                                                                                                                                                                                      BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 16.2;
Pred. No. 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       & DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                             primer; ss; pig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ۲.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22;
                                                                                                                                                                                                                                                                                                                                                        primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          e for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>,.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          plant
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The present invention the predisposition of

relates to appearance

the use of a nucleic acid to determine or inheritance of inverted nipples,

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RESULT 520
AD012376
ID AD0123
XX AD0123
XX AD0122
XX Singl
DT 15-JUI
XX Singl
XX Gene

amplification of target DNA fragments in a single multiplex polymerase chain reaction by aligning a first primer and a second primer; and (b) selecting the first primer where the first primer and a second primer; and (b) selecting the first primer where the first primer at its 3' end does not contain four or more bases that are perfectly matching to the 3' end sequence of the first primer or a second primer, the first primer at its 3' end does not contain seven or more bases that are perfectly matching except one mismatch to the 3' end sequence of the first primer at its 3' end does not contain six or more bases that are perfectly matching except one mismatch to the 3' end sequence of the first primer or the second primer, the first primer at its 3' end does not contain six or more bases that are perfectly matching to a sequence anywhere of the first primer or the second primer at its 3' end does not contain eleven or more bases that are perfectly matching to a sequence anywhere of the first primer or the second primer. The method is useful for designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single multiplex polymerase chain reaction; multifactorial disease; genetic alteration; pharmacogenetic reaction; genotyping; polymorph gene expression profiling.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Single multiplex PCR primer #1748.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure, Page 41; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      multiplex DNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Designing primers for simultaneous amplification of target DNA fragments in a single multiplex polymerase chain reaction, for high throughput
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-340914/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-OCT-2002; 2002US-0417009P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-OCT-2003; 2003WO-US031874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004033649-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22 BP; 10 A; 3 C; 7 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYNE-) UNIV NEW JERSEY MEDICINE & DENTISTRY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADO12376;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADO12376 standard,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primer; simultaneous amplification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3419 AGATGAGGCAGGAACTGAGGG 3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGATGAAGCAGGAACTCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   le multiplex polymerase chain reaction, for high thr DNA sequence amplification, comprises aligning two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
85.7%;
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Pred. No. 6.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 reaction; genotyping; polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1, Length 22;

    Indels

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RESULT 521
AAQ30433/c
ID AAQ304
XX AAQ304
XX AAQ304
XX AAQ304
XX AAQ304
XX Oligom
XX Human
XX Human
XX Malign
XX Synthe
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Matches
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                                                                                                                                                                                                                               18-JAN-1991;
08-APR-1991;
17-APR-1991;
17-APR-1991;
17-APR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chain reaction. It is also useful in the identification of multiple genes related to multifactorial diseases, the genome-scale detection of genetic alterations, the studies in pharmacogenetic reactions, the genotyping genetic polymorphisms in a large population, the gene expression profiling in various samples and high throughput genotyping technologies. This sequence corresponds to an example of a primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human interleukin-6 gene; herpes simplex; AIDS; modified; HIV; RSV; HPV; malignancy; hepatitis; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22 BP; 1 A; 12 C; 5 G; 4 T; 0 U; 0 Other;
                                                                       WPI; 1992-217083/26.
                                                                                                                                                                                                                                                                                                                                                  23-NOV-1990
                                                                                                                                                                                                                                                                                                                                                                                            25-NOV-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                          11-JUN-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       malignancy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oligomer IL6805 for forming triplex with HUMIL6 target duplex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-2003
07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ30432;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ30432 standard;
                                                                                                                                                               (GILE-) GILEAD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    309 GGCCCCTCTGGGCTCCTCCCT 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                  В,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            eccccrcreeecccreccr 21
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(first en
                                                                                                               Krawczyk
                                                                                                                                                                                                                             90US-00617907.
91US-00683420.
91US-00683420.
91US-00686544.
91US-00686546.
91US-00686547.
                                                                                                                                                               SCI INC.
                                                                                                                                                                                                            91US-00766733
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/mod_ba
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /*tag= c
/label= inverted_polarity_region
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'note= "o-xyloso dimer synthon linkage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
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                                                                                                                    Matteucci
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Pred. No. 6.
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                                                                                                                  Milligan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 22;
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New oligomers contg. modified bases - which form a triplex with G-C doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,

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RESULT 522
AAX57200/c
ID AAX572
XX AAX572
XX PORCIN
XX OCt-4;
XW Oct-4;
XW Cell 8
KW Cell 9
XX POPOCT
XX O9-OCT
XX O9-OCT
XX D9-OCT
XX D
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Matches
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   This sequence describes novel methods where a genetic selectable construct operatively linked to a porcine promoter is introduced source of cells that contain porcine stem cells under conditions allows for differential expression of the marker and hence the se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oct-4; porcine; selectable marker construct; promoter; stem cell; differential expression; selective isolation; pluripotent; propagation; cell surface membrane protein; rejection; xenotransplantation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX57200;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is the human
                                                                                                                                                                                                                                                                                                                                  Baetscher
                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         09-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX57200 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim
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                                                                                                                                                                                                                                                                                                                                                                                        (BIOT-) BIOTRANSPLANT INC
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                                                                                                                                                 Page 28;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 0 A; 2 C; 0 G; 21 T; 0 U; 0 Other;
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                                                                                                                                                                                                        cells comprising a marker
                                                                                                                                                                                                                                                                                                                               Akiyoshi DE,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organ; transplant; programmed cell death; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                              69pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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Pred. No. 6.9e+02;
                                                                                                                                                                                                                                                                                                                               Kaplan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                        gene under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
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                                                                                                                                                                                                           promoter.
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Best Local
Query Match
Best Local Similarity
                                                                             AAX81588-X81630 represent PCR primers used to amplify erythrovirus V9 polynucleotide sequences. Probes and primers derived from erythrovirus V9 polynucleotide sequences (AAX81580) can be used for differential diagnosis of erythrovirus (parvovirus) infections by a combination of amplification and hybridisation assay. The probes can also be used to assess susceptibility to erythrovirus infection and for erythrovirus screening and typing. The antibodies can be used in immunoassays for diagnosis of erythrovirus V9 infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          membrane protein that may cause rejection of porcine cells after xenotransplantation. Transgenic pigs generated through the modified porcine stem cells are useful for providing organs suitable for transplants. The methods overcome the problem of prior art methods associated with the continuing presence of certain differentiated or types that can cause elimination of stem cells from the culture by inducing their differentiation of programmed cell death. The inventigence of certain describes the use of the porcine Oct-4 promoter
                                                 Sequence 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 23 BP; 8 A; 8 C; 3 G; 3 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    isolation and/or propagation of desired porcine stem cells. The methods are used to isolate and/or enrich and/or selectively propagate pluripotent porcine cells and to genetically modify porcine cells. The embryonic stem cells could be altered so as to not express a cell surface
                                                                                                                                                                                                                                         Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Symthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX81611 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                03-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     erythrovirus
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                                                                                                                                                                                                                                                                         diagnosis
                                                                                                                                                                                                                                                                                           Erythrovirus V9 and its nucleic acid sequences -
                                                                                                                                                                                                                                                                                                                           WPI; 1999-349543/30
                                                                                                                                                                                                                                                                                                                                                                                            (ASSI-) ASSISTANCE PUBLIQUE HOPITAUX PARIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Erythrovirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 polynucleotide sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer used to amplify erythrovirus V9
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                                                                                                                                                                                                                                        Page 27; 80pp; French.
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                                                                                                                                                                                                                                                                         of its infections.
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                                                   BP; 16
                                                                                                                                                                                                                                                                                                                                                           Garbarg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     screening; typing; immunoassay;
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                                                   A; 1 C; 1 G; 5 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                             Auguste
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 16.2;
Pred. No. 6.
Score 16.2; DB 1;
Pred. No. 6.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  U; 1 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer;
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               Length 23;
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RESULT 524
AAI70049/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to thermostable mutant B-type DNA polymerases, which have a Y-GG/A amino acid motif between the N-terminal 3'-5' exonuclease domain and the C-terminal polymerase domain, where the tyrosine of this motif is mutated. The mutant B-type DNA polymerase is useful for synthesising nucleic acids and for PCR. To illustrate the invention, Thermococcus aggregans (Tag) DNA polymerase was used (AAI70053). The present sequence is a PCR primer, which was used in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New thermostable mutant B-type DNA polymerase with a Y-GG/A amino acid motif between the N-terminal 3'-5' exonuclease domain and the C-terminal polymerase domain in the wild type polymerase, useful for synthesizing
  Hominidae; low density lipoprotein receptor; LDL receptor; LDL-R;
                                                                                                          27-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 23 BP; 4 A; 8 C; 3 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 5; Page 9; 40pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAR-2001; 2001EP-00104583
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                                                                                                                                                             ABL91058
                                                                                                                                                                                                              ABL91058 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-MAR-2000; 2000EP-00105155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer lambda 8.
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                                                 Hominidae LDL receptor related DNA sequence #102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HOFF ) ROCHE DIAGNOSTICS GMBH.
                                                                                                                                                                                                                                                                                                                                                                                             4406 AGAAAGATGAGACTCTGGTGT 4426
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                                                                                                                                                                                                                                                                                                                                            ATAAAGATGAGACGCTGGAGT 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Frey B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the invention
                                                                                                          (first entry)
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                                                                                                                                                                                                              DNA;
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Pred. No. 6.
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RESULT 526
AAF05471/c
ID AAF054
XX AAF054
XX AAF054
XX Hammer
XX Hammer
XX Hibozy
KW Interf
XX WO2000
XX WO2000
PD 19-OCT
XX I1-APF
XX RIBO-
XX RIBO-
PI Blatt
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a method for detecting lipid metabolism errors in patients using as indicators a set of 65 specific low density lipoprotein (LDL) receptor gene mutations. The method can be used in the diagnosis of an inherited predisposition to the development of diseases associated with hyperlipaemia, such as arteriosclerosis and ischaemic heart disease. ABL91141 encodes the LDL receptor given in ABB90525. ABL91142 to ABL91183 represent PCR primers used in the amplification of the receptor gene. ABL90990 to ABL91140 and ABB9045 to ABB90524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 23 BP; 3 A; 13 C; 4 G; 2 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           detection; lipid metabolic error; hyperlipaemia; mutation; arteriosclerosis; ischaemic heart disease; ischaemia; ds.
                                                       12-APR-1999;
                                                                                                            19-OCT-2000
                                                                                                                                      WO200061729-A2
                                                                                                                                                                                                      Ribozyme; erythropoietin; granulocyte colony stimulating factor;
                                                                                                                                                                                                                                 Hammerhead ribozyme substrate #2690.
                                                                                                                                                                                                                                                              16-FEB-2001
                                                                                                                                                                                                                                                                                       AAF05471;
                                                                                                                                                                                                                                                                                                                AAF05471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      represents sequences used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Set of specific low density lipoprotein receptor gene mutations for diagnosis of familial lipid metabolism errors including hyperlipemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-179794/23.
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Iwasaki T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-JUL-2000; 2000JP-00218039
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                                                                                11-APR-2000; 2000WO-US009721
                                                                                                                                                                                          interferon alpha;
                            (RIBO-) RIBOZYME PHARM INC.
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                                                                                                                                                                                                                                                                                                                standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                    GCTCCCCRGACCCCCAGGCTCCA 23
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                                                        99US-0129390P
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78.3%;
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Pred. No. 6.
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Blatt L,

Zwick M,

Pavco P,

Mcswiggen

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RESULT 527
AAPO54469/c
ID AAPO54
XX AAPO54
XX Hammer
XX Ribozy
XW Ribozy
XW Ribozy
XW Interf
XX Homo 8
XX I1-APH
XX HIBO-
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Best Local Similarity
Matches 16; Conser
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                               The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to enzymatic and antisense nucleic acid molecules that act as inhibitors of the expression of repressor genes encoding the TR2 Orphan receptor, EAR3/COUP-TF-1, the GATA transcription factor gene, IRF-2 and/or the CAATT Displacement Protein (CDP). Inhibition of the repressors removes prevents inhibition (and consequently increases expression of) genes involved in the production of erythropoietin, granulocyte colony stimulating factor protein and
                                                                                                                                                                                                      Enzymatic and antisense nucleic acid inhibition of repressor genes useful for producing e.g. granulocyte colony stimulating factor printerferon alpha and erythropoietin.
                                                                                                                                                                                                                                                                                                         Blatt L,
                                                                                                                                                                                                                                                                                                                                                                            12-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 18; Page 117; 164pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        useful for producing e.g. granulocyt interferon alpha and erythropoietin.
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                                                                                                                                                                                                                                                                                                                                           RIBOZYME PHARM
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                                                                                                                                                                    Page 117; 164pp; English.
                                                                                                                                                                                                                                                                                                         Zwick M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ribozyme
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                                                                                                                                                                                                                                                                                                         Pavco P,
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Pred. No.
                                                                                                                                                                                                                                                                                                        Mcswiggen
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7.1e+02;
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RESULT 52
AAD41868/
AAD41868/
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XX AAD4
XX AAD4
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XX ON-2
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KW Gene
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Best Local S
Matches 16
                                                                                                                                                 modified_base
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                     modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene therapy; vir
cancer; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense therapy; infection; cardiovascular disorder; immune reaction; gene therapy; virucide; cytostatic; antibacterial; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ON-21 oligonucleotide used
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68/c
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llarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                /mod_base= OTHER
/note= "5-(1-propynyl)-2'-deoxyuridine;
given as N in the sequence shown as SEQ
sequence listing"
9
                             /note= "5-(1-propynyl)-2'-deoxyuridine; given as N in the sequence shown as SEQ sequence listing"
                                                                                                                                                                                                                listing"
                                                                                                                                                           /mod_base= OTHER
/note= "5-(1-propyny1)-2'-deoxyuridine;
given as N in the sequence shown as SEQ
sequence listing"
                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "5-(1-propyny1)-2'-deoxyuridine; This base given as N in the sequence shown as SEQ ID NO: 15
                                                                                                  /mod base OTHER
/mote= "5-methyl-2'-deoxycytidine; This base
/note= "5-methyl-2'-deoxycytidine; This base
                                                                                                                                                                                                                                                        /*tag=
/mod_ba
                                                                                                                                                                                                                                                                                                                                                                                                                   sequence listing"
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'mod_base=
                                                           /*tag= g
/mod_base= OTHER
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/note= "5-methyl-2'-deoxycytidine;
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e= "5-methyl-2'-deoxycytidine; This base is
+he sequence shown as SEQ ID NO: 15 in the
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Pred. No.
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7.1e+02;
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ID NO: 15
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sequence
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RESULT 529
ABZ10676/c
ID ABZ106
XX ABZ106
XC ABZ106
XY 16-JAN
XX Haemat
XX Haemat
XX Humann
KW Gytosi
XX Homo c
OS Synthe
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to novel oligomers which have enhanced ability with respect to forming duplexes or triplexes. The oligomers comprise at least three 3'-5' linked nucleosides or their salts. At least one internucleoside linkage is not a phosphodiester linkage and at least one nucleoside comprises a base. Sequence of the invention are useful for binding to a DNA duplex target sequence via either CT or GT triplex helix binding motif and in antisense therapies. They are also used for treating diseases caused by viruses and for diagnostic applications to detect viral infections, bacterial infections and diseases such as cancers. The oligomers are also used as primers, in the treatment of pathological conditions associated with inflammatory conditions, cardiovascular disorders, immune reactions and bacterial infections and tor modulating target gene expression. They are also useful in gene therapy. The present sequence is an oligonucleotide used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-NOV-1991;
25-AUG-1992;
23-OCT-1992;
25-NOV-1992;
                                                              Human; haematopoietic cell proliferation disorder; cytostatic; gene therapy; lymphocytic leukaemia; acute myelogenous leukaemia; cytosine methylation state; probe; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New oligomers useful for binding to DNA duplex target sequence and for treating e.g. diseases caused by viruses and inflammatory conditions comprise at least three 3'-5' linked nucleosides.
                  Homo sapiens
Synthetic.
                                                                                                                                                                 16-JAN-2003
                                                                                                                                                                                                 ABZ10676;
                                                                                                                                                                                                                              ABZ10676 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17 BP; 2 A; 3 C; 0 G; 0 T; 12 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           exemplification of the invention
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                                                                                                                                Haematopoietic cell proliferation disorder related oligonucleotide
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92US-00935444.
92US-00965941.
92US-00976103.
94US-00338352.
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                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                 entry)
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Pred. No.
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7.1e+02;
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cc which distinguishes between methylated and non-methylated CpG dinucleotides within the target nucleic acid. ABZ09861 to ABZ11118 cc represent specifically claimed nucleotide sequences from the present invention. Oligonucleotides from the present invention can be used; for cinvention can be used; for cdifferentiating between healthy haematopoietic cells and proliferative cliouver haematopoietic cells; for differentiating between acute cc lymphocytic leukaemia and acute myelogenous leukaemia; as probes for cdetermining the cytosine methylation state and/or single nucleotide cc polymorphisms (SNPs) of haematopoietic cell proliferation disorder crelated sequences and their complements; and as primers for the camplification of haematopoietic cell proliferation disorder related DNA sequences. The nucleotide sequences from the present invention can also be used for detecting a predisposition to, differentiation between cushelasses, diagnosis, prognosis, treatment and/or monitoring of themselved in the present method enables a chighly specific classification of haematopoietic cell proliferative disorders. The present method enables a disorders allowing for improved and informed treatment of patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting and differentiating between hematopoietic cell proliferative disorders, comprises contacting a target nucleic acid with a reagent that distinguishes between methylated and non-methylated CpG dinucleotides.
Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                differentiating between haematopoietic cell proliferative disorders associated with at least 1 gene and/or their regulatory regions in a subject. The method comprises contacting a target nucleic acid in a biological sample obtained from the subject with at least 1 reagent,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Berlin K, Braun A, Distler J, Guetig D, Olek A, Piepenbrock C, Adorjan P, Grabs Lewin A, Lipscher B, Maier S, Model F, Schwope I, Ziebarth H;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 15; Page 57; 117pp; English.
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BP; 5 A; 0 C; 6 G; 7 T; 0 U; 0 Other;
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Mueller V,
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Matches Query Match Best Local (16; Similarity Conservative 0.3%; 0 Score 16; DB 1; L Pred. No. 7.1e+02; Mismatches Length 18 Indels ç Gaps 0

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RESULT 530
ADB654
XX ADB654
XX ADB654
XX ADB654
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XX YOUNGER ADB654
XX Homo s
XX YOUNGER ADB654
XX WOOOOOO
                                                                                                         Human WNT3 reverse PCR primer
                                                          ss; primer; human; PCR; WNT; chronic rheumatoid arthritis; WNT10B;
rheumatoid arthritis; osteoarthritis.
                                                                                                                                          29-JAN-2004
                                                                                                                                                                                                     ADE65475 standard;
                                                                                                                                       (first entry)
                                                                                                                                                                                                      DNA;
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                                                                                                           SEQ ID
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WO2003093508-A1 Homo sapiens

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RESULT 531
AAI64176
ID AAI641
XX Gas
CULTANE
XX Gas
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                                                                                                               Use of and/or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-854488/79.
                                                                                                                                                                                                                                                                                                                                                                                                                                      13-APR-2000; 2000SE-00001373.
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                                                                      selective neuropeptide
treating inflammatory of
g target for screening a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        129SVxBalb/c hybrid mouse analysis PCR primer #3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCI & TECHNOLOGY CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                         'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                                                         De Araujo Lucas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 16; DB 1; Leux
Pred. No. 7.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ВP
                                                                             antiinflammatory
                                                                                                           conditions e.g. neurogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           u; 0
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                                                                                                                                                                                                                                                                                             Hassani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                           for preventing inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                  and
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$3666666666666688$
                                                             The present sequence relates to a primer used analyse neuropeptide Y (NPY) Y1 receptor mutant 1298YXBalb/c hybrid mice. These mutants were generated to identify a possible physiological role for NPY in pain transduction and to identify specific receptor subtypes involved. The specification describes a novel use of selective neuropeptide Y Y1 receptor antagonist for preparation of a drug for preventing and/or treating inflammatory conditions. The invention has anti-inflammatory activity and provides a selective neuropeptide Y Y1 receptor antagonist. The method is useful for preparation of a drug for preventing and/or treating inflammatory conditions (cutaneous or internal inflammation) which include neurogenic inflammation or acute and chronic/persistent inflammation. The method is further useful as drug target in screening procedures to find anti-inflammatory compounds
  Sequence
  21
                                                        ដ
BP; 5 A; 8 C; 3
                                                        find anti-inflammatory compounds
  G; 5 T; 0
     U; O
     Other;
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Query Match
Best Local S
Matches 16
16;
        Similarity
Conservative
        100.0%;
                  0.3%;
<u>,</u>
Score 16; DB; Pred. No. 7.3
         DB 1; Le
7.3e+02;
                 Length 21;
 Indels
 0,
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Gaps

0

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AGCCTCTGTTCCACAT 18

S

1306

AGCCTCTGTTCCACAT 1321

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AAH77215
                                      31-JAN-2002
primer 3 for analysis of Y1 mutant 129SVXBalb/c hybrid mice.
                                                                                                              standard; DNA; 21
                                      (first entry
                                                                                                              ВP
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neuropeptide Y Y1 receptor agonist; anti-nociceptive; pain alleviation; cutaneous pain; visceral pain; chemical pain; thermal pain; diffuse pain; mechanical pain; local pain; chronic pain; persistent pain; dorsal horn; Mouse; neurotransmitter; Y1 receptor; PCR primer; Y1 mutant 129SVXBalb/c hybrid; NPY Y1; spinal

Unidentified.

WO200178762-A1

25-OCT-2001.

12-APR-2001; 2001WO-SE000827.

13-APR-2000; 2000SE-00001373.

(KARO-) KAROLINSKA INNOVATIONS ΑB

2002-011073/01

Ρ,

Naveilhan

Ψ,

De Araujo Lucas

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Hassani

Ξ

g used lective neuropeptide Y1 for treating pain e.g. receptor agonist diffuse or local 유남 the preparation of chronic/persistent ø

Disclosure; Page 11; 30pp; English.

ARBSULT 532
AAH77215
ID AAH772
XX AAH772
AC AAH772
AC AAH772
XX 11-AN
XX 9AH772
XX 11-AN
XX Mouse;
KW Mechan
XW mechan
XW mechan
XW Uniden
XX Uniden
XX 12-APR
XX 13-APR
XX 11-APR
XX 11-A The present polynucleotide sequence represents the PCR primer 3 for use in analysing Y1 mutant 129SVXBalb/c hybrid mice. The mutant hybrid mice were created by the injection of a Y1 targetting construct into homologous recombinant embryonic stem cell clones. The invention relates to the use of, or method of using, a selective neuropeptide Y Y1 (NPY Y1) receptor agonist for preparation of a drug for preventing and/or treating pain conditions. In a further aspect the invention relates to use of the NPY Y1 receptor as a drug target in screening procedures to find agonists of said receptor, more precisely to find anti-nociceptive compounds which

Page 11;

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RESULT 533
AAQ51663/c
ID AAQ516
XX AAQ516
XX AAQ516
XX AAQ516
XX AAQ516
XX ADV px
XX ADV; A
KW ADV; A
KW POLYme
XX JP0527
XX JP0527
XX JP0527
XX O1-APR
XX O1-APR
XX (NISS
PA (ZENK-
XX (NISS
PA (ZENK-
XX WPI; 1
XX Detect
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XX Detect
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XX Claim
XX Cl
RESULT 534
AAT30413
ID AAT304
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                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 17
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                          The detection method for Aujezsky's disease virus uses a primer pair selected from the ADV DNA-specific region, with PCR designed to suit the amplification of DNA, thereby permitting specific and highly sensitive detection of ADV. Claimed primers are given in AAQS1659-72; additional
                                                                                                                                                                                                                                                                                                                                                 Sequence 19 BP; 2 A; 6 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Detection of Aujeszky's disease virus as primer for selective detection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1993-373607/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NISS )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JP05276998-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADV; Aujeszky's disease virus; primer; PCR; amplification; polymerase chain reaction; detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-MAY-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAQ51663;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ51663 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-0CT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADV primer (III)a.
                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1306 AGCCTCTGTTCCACAT 1321
                                                                                                                                                                                      3251 GCTGCCAGGACCTGGCCTC 3269
                                                                                                                                                                                                                                           17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
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                                                                                                                                                                                                                                                                                                                                                                                                   are given in AAQ51673-74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 1; 9pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCCTCTGTTCCACAT 18
                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92JP-00079881.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEIFUN KK.
NOGYO KYODO KUMIAI REN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0.3%; Sur
100.0%; Pr
                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВÞ
                                                                                                                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 16;
Pred. No.
                                                                                                                                                                                                                                                                       Score 15.8;
Pred. No. 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Li
7.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               using
                                                                                                                                                                                                                                                                  .7e+02;
                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  specified oligo-nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 21;
                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
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                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                           0
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AAT30413 standard; DNA; 19 BP

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RESULT 535
ADP31861
ID ADP318
XX ADP318
XX ADP318
XX I2-PEE
XX 12-PEE
XX Human
XX RNA 11
KW Short
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises disesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods. to detect differences. The primers used in the amplification comprise a primer consisting of a perfect pd. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor segment. The present sequence is an example of a compound SSR primer. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and germplasm comparisons
             RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA; short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; proliferative disease; restenosis; polycystic kidney disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite region; genetic trait marking; germplasm comparisons; compound; ss.
                                                                                                                                                    Human IGF-1R siNA lower strand,
                                                                                                                                                                                       12-FEB-2004
                                                                                                                                                                                                                             ADF31861
                                                                                                                                                                                                                                                                ADF31861 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 19 BP; 9 A; 0 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 2; Page 84; 173pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modified amplified fragment length polymorphism assay - for detection polymorphism esp. in micro:satellite regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Morgante M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Compound simple sequence repeat primer (GA) 7.5 (TA) 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAT30413;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (DUPO ) DU PONT DE NEMOURS & CO
 inflammatory disease; allergic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                             1183 GAAAGAGAGAGAGAAAT 1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1996-277795/28.
                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                                                                                                                            GAGAGAGAGAGAGATAT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Vogel JM;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.8; DB 1;
Pred. No. 7.7e+02;
                                                                                                                                                    SEQ ID NO:526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1;
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RESULT 536
ADF31584/c
ID ADF315
XX
AC ADF315
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                                                                                                                                                                                                                                                                    The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human insulin-like growth factor 1 CC receptor (IGF-IR) gene by RNA interference. The siNAs may or may not CC comprise ribonucleotides and may be double or single stranded. They CC further comprise sense and antisense regions, or alternatively are cassembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-cC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs CC can be unmodified or chemically modified, can contain cast of compression of expressed from a correct or enzymatically synthesised. Expressed from a correct or enzymatically synthesised. The invention also relates to kits concern and vectors that express siNA. The invention also relates to complexes of siNA; and vectors that express siNA. The siNAs are used to modulate (e.g., by ex vivo gene therapy), or in grafts and transplants for the correct of a variety of conditions. They may be used for treating cancer and other proliferative disease (e.g., restenosis and polycystic ciseases and transplant rejection. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, campaing (e.g., of single nucleotide polymorphisms). The present sequence companies the lower strand of a human IGF-IR-targeted double-stranded
                                                                                                                                                                                              Query Match
Best Local S
Matches 17
                                  ADF31584 standard; RNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New short interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer, downregulates expression of the insulin-like growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               05-SEP-2002;
09-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-MAR-2002;
06-JUN-2002;
     ADF31584
                                                                                                                                                                                                                                                                  Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-721691/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-FEB-2003; 2003WO-US005044.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003070911-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transplant rejection; cytostatic; vasotropic; nephrotropic; antiinflammatory; antiallergic; immunosuppressive; human; insulin-like growth factor 1 receptor; IGF-1R; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-JAN-2003;
                                                                                                                                                            2568 GGAGAGAGAGATGGAGAAC 2586
                                                                                                                                                                                                17;
                                                                                                                            _
                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  receptor gene.
                                                                                                                           GGAGAGAGAAAGGGAGAAC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 526; 147pp; English.
                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                  BP; 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2002US-0363124P.

2002US-0386782P.

2002US-0406784P.

2002US-0408378P.

2002US-0408378P.

2002US-0409293P.

2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002US-0358580P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Beigelman L,
                                                                                                                                                                                                                                                                  A; 1 C; 9
                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                  G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Chowrira
                                                                                                                                                                                                             Score 15.8; DB 1
Pred. No. 7.7e+02
                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                               DB 1; Length 19;
                                                                                                                                                                                                Indels
                                                                                                                                                                                              <u>,</u>
                                                                                                                                                                                              Gaps
                                                                                                                                                                                                0
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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human insulin-like growth factor 1 CC receptor (IGF-IR) gene by RNA interference. The siNAs may or may not CC comprise ribonucleotides and may be double or single stranded. They CR further comprise sense and antisense regions, or alternatively are CC assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs can be unmodified or chemically wondified, can contain CC can be unmodified or chemically wondified, can contain CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC vector or enzymatically synthesised. The invention also relates to kits of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the IGF-IR gene in cells, tissue explants or organisms CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the CC (ancer and other proliferative diseases (e.g., restances and polycystic ciseases and transplant rejection. They may be used for treating cancer and other proliferative diseases (e.g., restances and validation, and gene complexes of transplant rejection. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, and gene complexes the upper strand of a human IGF-IR-targeted double-stranded craphs siNA, which is identical to the IGF-IR transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2002; 2002US-0358580F.
11-MAR-2002; 2002US-0363124F.
06-JUN-2002; 2002US-0386782F.
29-AUG-2002; 2002US-0406784F.
05-SEF-2002; 2002US-0408378F.
09-SEP-2002; 2002US-0409293F.
15-JAN-2003; 2003US-0440129F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; mi short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; proliferative disease; restenosis; polycystic kidney disease; inflammatory disease; allergic disease; autoimmune disease; transplant rejection; cytostatic; vasotropic; nephrotropic; antiinflammatory; antiallergic; immunosuppressive; human; insulin-like growth factor 1 receptor; IGP-1R; target sequence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mcswiggen J, Beigelman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human IGF-1R transcript target sequence/siNA upper strand, SEQ ID NO:249.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New short interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer, downregulates expression of the insulin-like growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; SEQ ID NO 249; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RIBO-) RIBOZYME PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-FEB-2003; 2003WO-US005044.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO2003070911-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chowrira B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88
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Query Match Best Local Similarity

0.3%;

Score 15.8; DB 1; Pred. No. 7.7e+02;

Length 19;

Sequence 19

BP; 0 A; 9 C; 1 G; 0 T; 9 U; 0 Other;

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RESULT 537
AAQ75581/c
ID AAQ755
XX JP063C
XX AAQ755
PF 16-APF
XX WPI;
XX WPI;
XX WPI;
XX WPI;
XX AAALY
PT AAALY
CCC AAAC
CCC AAAC
CCC COLL
CCC COL
ARTSULT 538
ART41429
ID ART4144
XX ART414
XX OAT414
XX O2-FEB
XX Rat ob
XX Obese
XX Obese
XX Synthe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A method for the analysis of cDNA comprises (a) preparing an aggregate (double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESEO files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-NOV-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-AUG-1995
                          Synthetic
                                                                             Obese gene;
                                                                                                                          Rat obese gene
                                                                                                                                                                                 02-FEB-1997
                                                                                                                                                                                                                                    AAT41429
                                                                                                                                                                                                                                                                                    AAT41429 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 2 A; 0 C; 0 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          method can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 5; 11pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Analysis of cDNA and gene expression - by by digestion with restriction enzymes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JP06303997-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aggregate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAQ75581 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (NITS ) NIPPON TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                5390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19
                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17,
                                                                                                                                                                                                                                                                                                                                                                                                                   ATTAAAAAAAAAAAAA 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTAAAAAAATACAAAAAA 5408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAGAGAGAGATGGAGAAC 2586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene expression; reverse transcription; primer; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  restriction
                                                                             မှ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                 (firet
                                                                                                                            antisense primer No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        93JP-00112515.
                                                                             gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93JP-00112515
                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                 entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                             obesity, polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               enzyme;
                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
                                                                                                                                                                                                                                                                                      BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.8; DB 1; Length Pred. No. 7.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                               7.
                                                                             chain reaction; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amplification of mRNA followed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                             primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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RESULT 539
AAA5551/c
ID AAA555
XX AAA555
XX JO-AUG
DT JO-AUG
DT TRAF2
XX TUMOUZ
KW ANT1-1
XX SYNTHE
XX WO200(
PN WO13-APF
XX ANT18/
PT NECTO
PT Odisea
XX
PS Examp
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Primers 5-8 (AAT41427-30) are based on a 184 bp rat obese gene cDNA clone isolated from epididymis fat tissue (see also AAT41426). Primers 5 and 7, and primers 6 and 8, were used in 2 PCR reactions to amplify cDNA derived from epididymis fat tissues of Sprague- Dawley rats. Amplified products were cloned into pBluescript, introduced into E. coli JM109 and sequenced. A complete rat obese gene cDNA (AAT41421) was obtd
                                      Antisense oligonucleotides targeted to nucleic acids encoding human tumor necrosis factor receptor-associated factor (TRAF), useful for treating diseases associated with TRAF expression such as inflammatory diseases.
                                                                                                                                                                                                                                                                                                                               Tumour necrosis factor receptor-associated factor; TRAP; human; antisense oligonucleotide; phosphorothioate; antiproliferative;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1996-444886/45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-APR-1996;
                                                                                                                         Baker
                                                                                                                                                                              06-OCT-1998;
                                                                                                                                                                                                       05-OCT-1999;
                                                                                                                                                                                                                                  13-APR-2000
                                                                                                                                                                                                                                                             WO200020435-A1.
                                                                                                                                                                                                                                                                                         Synthetic.
                                                                                                                                                                                                                                                                                                                  anti-inflammatory; B-selectin; jun kinase; ss.
                                                                                                                                                                                                                                                                                                                                                                        TRAF2 antisense oligonucleotide ISIS# 16842.
                                                                                                                                                                                                                                                                                                                                                                                                  30-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                               AAA55551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAA55551 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 6 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 7; 26pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nakao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TAKE ) TAKEDA CHEM IND LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-APR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EP736599-A2
                                                                                                                                                  (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      recombinant rat obese gene - used to develop prods. to study obesity to diagnose obesity and obesity factors.
                                                                                               2000-303732/26
                                                                                                                         BF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>,</u>×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22 TGAAGAAACCTGGGAGCCA 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \vdash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGAGGATACCTGGGAGCCA 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ogawa Y,
                                                                                                                         Cowsert LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                              98US-00167109
                                                                                                                                                                                                         99WO-US023171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 95JP-00077966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96EP-00105353.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA,
                                                                                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pujisawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                          Monia
                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP.
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Pred. No. 7.7e+02;
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Example 16; Page 52; 170pp; English

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RESULT 540
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                                                                                                                                                                                                                                                                                 Inhibiting gene expression e.g. DNA methyltransferase, with a synergistic amount of antisense oligonucleotide effectors e.g. 5-aza-cytidine of gene products, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; DNA methyltransferase; DNA MeTase; antisense oligonucleotide; modulation; inhibition; gene expression; combination therapy; p16; histone deacetylase; HDAC; thymidylate synthase; tumour suppressor; methylation; gene therapy; tumour; cytostatic; antiasthmatic; antiinflammatory; inflammation; asthma; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-339532/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human histone deacetylase HD2 antisense oligonucleotide SEQ ID NO:51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAA55806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA55806 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (METH-) METHYLGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to antisense oligonucleotides (see AAA55496 A-A55757) which are targeted to nucleic acids encoding a human tumour
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Macleod
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA;
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                                                                                                                                                                                                                                                                                 by treating cells and protein for gene therapy
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The present invention describes a method for inhibiting the expression a gene in a cell comprising contacting the cell with an effective synergistic amount of an antisense oligonucleotide which inhibits expression of the gene, and an effective synergistic amount of a protein

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Primers AAZ32974-Z32977

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Disclosure; Page 29; 99pp; English.

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Thehes 17; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC effector of a product of the gene. Also described are: (1) a method for CC treating a disease responsive to inhibition of a gene in a mammal; (2) a CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a gene CC comprising an antisense oligonucleotide which inhibits expression of the CC gene in operable association with a protein effector of a gene product; CC and (4) a pharmaceutical composition comprising the inhibitor of (3). The CC methods and compositions are useful as analytical tools for transgenic CC diseases including benign and malignant tumours, inflammation or asthma. CC the inhibitors and compositions of the invention that inhibit CC expression or activity of a gene or gene product may be used to treat CC patients having, or predisposed to developing, a disease responsive to CC inhibition of the gene. These may also be used to activate silenced genes to provide missing gene functions and improve a given condition. CC physiological function of a gene product in an experimental cell culture or animal system; and to evaluate the effect of inhibiting gene activity or expression. AAA55758 to AAA55842 represent or invention the resources of the condition of the sequences of the conditi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20
                                        Claim 8;
                                                                                                                                                                                                                   Skolnick MH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human MKK4 exon A PCR primer CG2exA.RP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAZ32975 standard; DNA;
                                                                                                      Polynucleotides comprising all or a MKK4 locus are useful for diagnosis,
                                                                                                                                                                                                                                                                                                         10-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                  13-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                      US5989885-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         somatic; signal transduction; apoptosis; stress; cytokine; induction; phosphorylation; Jun kinase; JNK; p38; tumour; suppressor; loss of heterozygosity; LOH; cancer; detection; diagnosis; prognosis; breast cancer; pancreatic cancer; coloer; testicular cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MKK4; mitogen activated protein kinase; MAPK; MAPK pathway;
                                                                                                                                                                                                                                                              (MYRI-) MYRIAD GENETICS INC.
                                                                                                                                                                                                                                                                                                                                                                                             23-NOV-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which are used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2642
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                                        Col 33-34; 63pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                Perry WL,
                                                                                                                                                                                                                                                                                                         97US-00782482.
                                                                                                                                                                                                                                                                                                                                                  97US-00874186.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene therapy; protein replacement therapy; mimetic; PCR
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                                                                                                                                                                                                                   Tavtigian
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Pred. No. 7.
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                                                                                                      portion of the prognosis and
                                                                                                                                                                                                                   Teng
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                                                                                                        therapy of human
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XX AAC196
CH O7-FEB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Antisense oligonucleotide; p38 mitogen activated protein kinase; MAPK; antirheumatic; antiarthritic; immunosuppressive; cardiant; heart disease; antiinflammatory; autoimmune disease; rheumatoid arthritis; apoptosis; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAC79540 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                           WO200059919-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Murine p38beta antisense oligonucleotide SEQ ID 65.
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                                                                                                                                                                                                                                                            04-APR-2000, 2000WO-US008794.
                                                                                                                                                                                                                                                                                                                                   12-OCT-2000
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                                                                                                                (ISIS-) ISIS PHARM INC.
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                                                                                                                                                                                    9905-00286904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Indels
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밁 S

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This invention relates to antisense compounds 8-30 nucleobases in length cargeted to the 5'-untranslated region, translational start site, crasslational termination region of 3'-untranslated region of a nucleic acid encoding a p38 mitogen activated protein kinase (MAPK), where the antisense oligonucleotides inhibit the expression of MAPK. Sequences AAC79480 and AAC79501 represent human p38beta MAPK and p38beta MAPK cDNA cequences. AAC79571 - AAC79500 and AAC79553 - AAC79570 represent human p38beta antisense oligonucleotides, while AAC79502 - AAC79571 and AAC79571 - AAC79570 represent human p38beta antisense oligonucleotides. Also included in the invention are a p38alpha acDNA sequence AAC7953 and antisense oligonucleotides AAC7953 - AAC79573 and antisense oligonucleotides AAC7953 - AAC79537 and antisense oligonucleotides AAC7953 and antisense oligonucleotides have antirheumatic; antiarthritic; The antisense oligonucleotides have antirheumatic; antiarthritic; Cells or tissues. The oligonucleotides are used for treating an animal cells or tissues. The oligonucleotides are used for treating an animal contention of passes such as inflammatory or autoimmune diseases e.g. rheumatoid arthritic, or heart disease. The oligonucleotides are also useful for inhibiting the expression of p38 MAPK in cells or the part disease. The oligonucleotides are also useful for inhibiting the expression of p38 MAPK in cells or the part disease. The oligonucleotides are also useful for inhibiting the expression of p38 MAPK in the part of the p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2000-664982/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antisense compound targeted to p38 mitogen activated protein kinase inhibits protein kinase and is useful for diagnosing and treating inflammatory, autoimmune and heart disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 5; Page 53; 90pp; English.
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맑 Ś Query Match Best Local Similarity Matches 17; Conserv Sequence 20 BP; 2 A; 10 C; 6 G; 2 T; 0 U; 0 Other; 2639 CCCTGCAGCTGCTGCTGCA 2657 cccrecaeccecrececa 19 Conservative 0.3%; 0; Pred. No. 7.7e+02 Mismatches DB 1, Length 20, Indels 0 Gaps 0

inhibiting inflammation or apoptosis

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RESULT 543
AAH43116
                                                                                                                                    Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor; cell proliferation; cancer; restenosis; psoriasis; protozoal infection; fungal infections; ss.
                                                                                                                                                               Antisense oligo, target HDAC-2 121-141.
                                                                                                                                                                               19-SEP-2001
                                                                                                                                                                                            AAH43116;
                                                                                                                                                                                                         AAH43116 standard; DNA; 20
                                                                                                                                                                              (first entry)
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WO200138322-A1. Synthetic.

22-NOV-2000; 2000WO-IB001881. 31-MAY-2001

23-NOV-1999;

99US-0167035P

(METH-) METHYLGENE INC.

Delorme D, Ruel R, Lavoie R, Thibault C, Abou-Khalil

2001-432601/46.

New inhibitors of histone deacetylase e.g. N-hydroxy-5-(4-(benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for trearestenosis or fungal infections. treating cancer,

Monia BP,

Gaarde WA, Nero PS,

Mckay R,

Popoff I;

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Sequences AAC81326-C81405 represent antisense oligonucleotides targetted to the human Y-box binding protein 1 gene, which inhibit its expression. The antisense oligonucleotides were designed to target different regions of the human Y-box binding protein 1 mRNA, and were analysed for their effect on Y-box binding protein 1 mRNA levels by quantitative real-time PCR. Human Y-box binding protein 1 (also known as YB-1, DNA binding protein B and dbpB) is a member of the Y-box binding protein factors, a highly conserved family of nucleic acid binding proteins which bind to the Y-box, an inverted CCAAT sequence found in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human Y-box binding protein 1; YB-1; DNA binding protein B; dbpB; transcription factor; nucleic acid binding; DNA repair; cell sensitiaation; genotoxic stress; immune regulation; MHC expression; viral gene expression; extracellular matrix degradation regulator; redox signalling; expression inhibition; tumour formation; cancer multidrug resistance; inflammation; immune disorder; infection; cancer multidrug resistance; inflammation; immune disorder; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The sequences given in AAH43115-21 are oligonucleotides which are antisense to the histone deacetylase gene, HDAC-2. These oligonucleotides may be used in combination with an inhibitor of histone deacetylase enzyme function, to given an improved inhibitory effect, thereby reducing the amount of inhibitor required to obtain a given inhibitory effect.
                                                                                                                                                                                                                              Antisense oligonucleotides, useful for modulating the expression of Y-box binding protein 1, as well as for treating or preventing diseases associated with Y-box binding protein 1 expression, e.g. inflammation or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Compounds containing these oligonucleotides may be used to treat cell proliferation conditions such as cancer, restenosis or psoriasis. They can also be used to treat protozoal and fungal infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-OCT-2000.
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                                                                                                                                                                                                                                                                                                       WPI; 2001-023284/03.
                                                                                                                                                                                                                                                                                                                                          Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                               26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                              26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         phosphorothioate; antisense oligonucleotide; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human Y-box binding
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                                                                                                                                                                                                                   formation.
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                                                                                                                                                                               Col 43-44; 40pp; English.
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                                                                                                                                                                                                                                                                                                                                        Cowsert
                                                                                                                                                                                                                                                                                                                                                                            PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                               99US-00429323.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein 1 antisense oligonucleotide, SEQ ID NO:62.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15.8;
No. 7
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RESULT 545
AAC89545
ID AAC895
XX AAC895
XX AAC895
XX AAC895
XX Histon
KW HDAC-I
KW HDAC-I
KW HDAC-I
KW Gene t
XX WO2000
XX GO-NON
XX GO-NON
XX GO-NON
XX GO-NAN
XX WPI;
XX WPI;
XX Antise
PT deacet
PT neople
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CC promoters of many genes. Y box binding proteins have a broad specificity for nucleic acids, being able to bind double- stranded DNA, damaged DNA, CC and single-stranded DNA and RNA. Y-box binding protein 1 plays a role in CC DNA repair and the sensitisation of cells from a diverse array of CC genotoxic stresses, including DNA cross-linking agents and ultraviolet irradiation. Y-box binding protein 1 is also involved in immune CC regulation, being a negative regulator of MHC (major histocompatibility CC complex) gene expression, and additionally modulates viral gene CC expression. It also participates in the regulation of extracellular CC matrix degradation, and is thought to be involved in redox signalling. CC The oligonucleotides of the invention are useful for diagnosis, CC prevention and treatment of conditions associated with Y-box binding CC protein 1 expression, such as tumour formation, cancer multidrug CC resistance, inflammation, immune disorders and certain infections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                          The present invention provides inhibitors of histone deacetylase enzymenesuch as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These inhibitors may be antisense strands or they may be compounds identified by contacting the enzyme with the compound and measuring the resulting enzyme activity. These inhibitors are useful for treating cancers and for
                                                                                                                                                                                                                                                                                      Antisense oligonucleotide that inhibits expression of a histone deacetylase, useful for treating and/or alleviating the symptoms of neoplasia, or for inhibiting neoplastic cell growth in an animal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAC89545 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                              Macleod AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    03-MAY-2000; 2000WO-IB001252.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C; HDAC-D; cell cycle; tumourigenesis; cancer; inhibitor; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human HDAC-2 antisense sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAC89545;
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                                                                                                                                                                                                                                   Example 1; Page 24; 125pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          therapy;
                                                                                                                                                                                                                                                                                                                                                                                              2001-016407/02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              METHYLGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         Li Z, Besterman JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0132287P
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Pred. No. 7
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                                                                                                                                                           n enzymes
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Query Match Best Local Similarity

0.3%;

Score Pred.

15.8; DB 1; No. 7.7e+02;

Length

Sequence

20

BP; 0 A; 7 C; 7 which histone

G; 4 T; 2 U; 0 Other;

deacetylase

is involved

in

a neoplasia

for

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RESULT 546
AAC89536
ID AAC895
XX AAC895
XX HORO-1
XX Histor
KW Histor
KW HORO-1
XX WO200
XX WALF
PA (METH
XX WPI;
XX WPI;
XX WPI;
XX WPI;
XX WPI;
XX WPI;
XX The j
CC The j
CC Such
CC enzy
XX Sequ
RESULT 547
AASO5714
ID AASO57
XX
AC AASO57
XX
OP-SEP
DT 09-SEP
DT 07-SEP
XX
XX
DE Aminop
XX
revers
                                                                                                                                                                               Query Match 0.:
Best Local Similarity 89.9
Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                        The present invention provides inhibitors of histone deacetylase enzymes such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These inhibitors may be antisense strandsor they may be compound identified by contacting the enzyme with the compound and measuring the resulting enzyme activity. These inhibitors are useful for treating cancers and for identifying which histone deacetylase is involved in a neoplasia
                                      09-SEP-2004
07-SEP-2001
                                                                     AAS05714;
                                                                                                                                                                                                                      Sequence 20 BP; 0 A; 7 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                Disclosure, Page 12, 125pp; English.
                                                                                                                                                                                                                                                                                                                               Antisense oligonucleotide that inhibits expression of a histone deacetylase, useful for treating and/or alleviating the symptoms neoplasia, or for inhibiting neoplastic cell growth in an animal.
                                                                                                                                                                                                                                                                                                                                                                                              Macleod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-NOV-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200071703-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene therapy; PCR primer; ss.
reverse phase triplex forming oligonucleotide; RP-TFO;
                                                                                        AAS05714 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                      03-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-MAY-2000; 2000WO-IB001252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-D; cell cycle; tumourigenesis; cancer; inhibitor; antise
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human HDAC-2 PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-MAR-2001
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                  Aminopurine substituted region of an RP-TFO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                  (METH-)
                                                                                                                                                             2642
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                                                (CYGE-)
                                                CYGENE INC. OSTE C C.
                            Ramberg ER
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Best Local Similarity
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                                                                                                             Novel antisense compounds targeted to nucleic acids encoding glioma-
associated oncogene-1, for modulating the gene expression and treati-
diseases associated with expression of the oncogene in humans.
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                                                                            Claim 1;
                                                                                                                                                                                         WPI; 2002-138363/18.
                                                                                                                                                                                                                            Bennett CF, Wyatt J;
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The present invention relates to antisense compounds and methods modulating the expression of human glioma-associated oncogene-1. antisense compounds, particularly antisense oligonucleotides, tar

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Matches 17
The present invention relates to novel human nucleic acid sequences (I). The present sequence is one such nucleic acid sequence. Expression of (I) are implicated in tumour suppression or reversion and apoptosis and viral resistance. (I) are useful as probes or primers for detecting, identifying, measuring and/or amplifying nucleic acid sequences, as antisense reagents and for recombinant production of polypeptides. (I), polypeptides (II) encoded by (I), vector containing (I), cells containing these vectors and antibodies (Ab) against (II) are all useful for treatment/prevention of viral, tumour and cell degeneration diseases (especially neurodegeneration, such as Alzheimer's disease and schizophrenia). Analysing the expression of (I) is also useful for diagnosis and/or prognosis of such diseases. Transgenic animals carrying (I) are used for studying the actiology of these diseases (also immune
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Pred. No. 7.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in tumor suppression, useful for tion and cellular degeneration an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Susini
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 550
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DT 11-APF
DE Human
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Human
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PD 20-N
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YX
XX
IO-N
PN (RI)
PA (RI)
                                                                                                                                                             (c) a signal corresponding to the marker is detected from the resultant amplified product to specify the discrimination Nos. of the multiwell plates containing the clones having said marker sequence; (d) the order of the markers is changed so that the same discrimination Nos. succeed to the maximum in the specified discrimination Nos. to array the multiwell plates; (e) the clones in the multiwell plates of the specified discrimination Nos. are mixed respectively in each wells of longitudinal and lateral directions; (f) the mixed clones are cultured and the resultant cultures are amplified by using the above primer; (g) signals are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (1) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL4257 to ABL45322 represent PCR primers for human chromosome 21022.1, which are specifically claimed for use in the present invention
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes a method of arraying genome clones. The method comprises: (a) clones of the genomic libraries contained in multiwell plates numbered for discrimination are mixed in each of the multiwell plates; (b) a primer designed based on the chromosome marker sequence is added to the mixture to carry out an amplification reaction; (c) a signal corresponding to the marker is detected from the resultant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human chromosome 21q22.1 PCR primer SEQ ID NO:2590.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and inflammatory diseases). Note: In the present specification, SEQ ID 1 to 2280 are claimed in Claim 1, however only SEQ ID 1 to 2270 are shown in the specification
                                                                                                     Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 6; Page 56; 528pp; Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Arraying genome clones
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(GENO-) GENOTEX YG.
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Score 15.8; DB 1; Pred. No. 7.7e+02;
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RESULT 551
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XX Human;
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XX AAD3016
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 WPI; 2002-416486/44
                                 Ward DT,
                                                                 (ISIS-) ISIS PHARM INC.
                                                                                                     29-SEP-2000; 2000US-00676436.
                                                                                                                                   28-SEP-2001; 2001WO-US030549.
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/mod_base= OTHER
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                                 Wyatt JR;
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RESULT 552
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to antisense compounds, compositions and methods for modulating the expression of MEXCA (also referred as mitogenactivated protein kinase 4; MAPTANA; MAPT three kinase 1; MAPTERK kinase 4; MAPTANA; 
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    The invention describes novel isolated polypeptides (I, Ib) useful for diagnosing prostate cancer comprising obtaining a patient sample containing prostate cells and detecting the presence or absence of an expression product of a HML-2 endogenous retrovirus in a patient sample. Polymicleotides associated with (I) are useful for diagnosis or treatment of testicular cancer, multiple sclerosis or insulin-dependent diabetes mellitus. An inhibitor of a HML-2 protease and a transdominant negative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-691475/74.
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07-DEC-2001;
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The present invention describes a method (MI) for designing capture oligonucleotide probes (I) for use on a support to which complementary coligonucleotide probes (II) will hybridise with little mismatch, where (II) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Cryptococcus neoformans, Candida albicans and Repergillus funiquatus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents selected from Onchoverva volvulus, Entamoeba histolytica and Dracumculus medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.

Detecting cancer involving oncogenes, tumour suppressor genes, or genes involved in DNA amplification, replication, recombination or repair, the cancer is specifically associated with a gene selected from BRCA1 gene, p53 gene, human papillomavirus types 16 and 18 and liver cancers. The method is also used for environmental monitoring, forensics and the food
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                        The present invention describes a method (M1) for designing capture oligonucleotide probes (II) where on a support to which complementary oligonucleotide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a narrow range. The method is useful for detecting infectious diseases caused by bacterial infectious agents e.g. Cryptococcus neoformans, Candida albicans and infectious agents e.g. Cryptococcus neoformans, Candida albicans and Aspergillus fumigautus, viruses e.g. T-cell lymphocytotrophis cirus, Epstein-Barr virus and polio virus, and parasitic infectious agents eselected from Onchoverva volvulus, and parasitic infectious agents medinesis. The method is also useful for detecting genetic diseases such as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.

Detecting cancer involving oncogenes, tumour suppressor genes, or genes cancer is specifically associated with a gene selected from BRCAl gene, patched in also useful for detection, repolication, recombination or repair, the cancer is specifically associated with a gene selected from BRCAl gene, patched in also used in also used for any types 16 and 18 and liver cancers. The
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and feed industry, detecting comprises scanning (using e.g. a scanning electron microscope and infrared microscope) the support at the particular sites and identifying if ligation of the oligonucleotide probe sets occurred and correlating (using a computer) identified ligation to a presence or absence of the target nucleotide sequences. ABI82074 to ABI97366 represent oligonucleotide sequences used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Designing capture oligonucleotide probes complementary oligonucleotides hybridize
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fig 29; 300pp;
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Pred. No. 7
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                New antisense compound, diagnosing, treating or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-SEP-2002
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Pred. No. 7.7e+02
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                                                                                                                                                                                                                                                                                                preparing a composition for inflammatory diseases, e.g.
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This invention describes a novel antisense compound, which is 8-30 nucleobases in length targeted to a nucleic acid molecule encoding p38 mitogen-activated protein kinase (MAPK). The products of the invention have antiarthritic and antiinflammatory activity, can act as act as kinase inhibitors. The antisense compound is useful for preparing a composition for diagnosing, treating or preventing inflammatory diseases, e.g. rheumatoid arthritis or for use in antisense gene therapy. This

Example

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27-28; 44pp;

English

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Best Local
                                                                                                                                                                                                                                                                   The invention relates to a novel support for ligand immobilization, which is coated with a polyanion which has previously been activated. The support is useful for the production of DNA chips, protein chips, sugar chips and biosensors for investigative and diagnostic uses. Ligands which can be immobilized to the support include agonists, natagonists, toxins, venoms, virus epitopes, hormones, lectins, hormone receptors, peptides, nucleic acids, drugs, sugars, oligonucleotides, proteins, antigens, monoclonal antibodies, cells, viruses, and avidins. In an example of the invention, the ligand bound to the support is a PCR primer targeted to a number of genes and used to diagnose the presence and potentially the transcription of the genes. This sequence represents a 5' primer targeted to the v-akt murine thymoma viral oncogene homologue 1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACC44257 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; Page 33; 51pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Polyanion-coated ligand immobilization support for production of DNA chips, protein chips and biosensors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-342750/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Asada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-SEP-2001; 2001JP-00288149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Primer; ss; support; ligand immobilization; activated polyanion; DNA chip; protein chip; sugar chip; biosensor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence represents an inhibit p38 MAPK
                                                                                                                                                                                                                    Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-SEP-2002; 2002WO-JP009661.
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                                                    5167 TGTCACAGGGTGAGCCCCA 5185
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                                                                                                                                      Similarity
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                                                                                                                                         Score 15.8;
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Pred. No. 7.7e+02;
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                                                                                                                                      .7e+02
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RESULT 557

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PCR primers ACC70061-62 were used to amplify cDNA encoding a pig corticosteroid-binding globulin (Cbg). The specification describes a method of identifying polymorphic markers associated with the hypercortisolemia phenotype. The method comprises comparing nucleic acid sequences, from many individuals, that contain at least part of the Cbg gene and identifying mutations in this gene or adjacent sequences. The method is used for diagnosis of hypercortisolemia, or predisposition to it, for identifying dysfunction of the corticotropic acid and associated diseases, e.g. obesity; constitutive sensitivity to inflammatory or autoimmune reactions; aging (especially cognitive) or sensitivity to illicit drugs, It is also useful for (counter-) selection of breeding animals, especially pigs, with a high probability of developing hypercortisolemia and obesity
                                                                                        Human HEX-A gene PCR primer SEQ ID NO: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
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26-JUL-2002; 2002FR-00009551.
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Late PCR; polymerase chain reaction; human; CFTR; HEX-A; limiting primer; excess primer; PCR; primer; ss.
                                                                                                                                                                                                                                                                                ACC85486 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying polymorphic markers associated with hypercortisolemia, useful for diagnosis of dysfunction of the corticotropic axis and for selection
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hypercortisolemia; corticotropic acid; obesity; constitutive sensitivity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (INRG ) INRA INST NAT RECH AGRONOMIQUE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              652 CAGCCAGAGAAGACGAGTG 670
                                                                                                                                                                                                                                                                                                                                                                                                                                     20
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                                                                                                                                                                                                                                                                                   BP.
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0; Mismatches
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Pred. No. 7.7e+02;
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RESULT 559
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XC Human
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                                                                                                                                                                                                                  Human; inhibitor-kappa B-R; I-kappaBR; IKBR; I-kappa-B-related; NFKBIL2; ikappab r; antisense; immune response; infection; inflammation; therapy; tumour; prophylaxis; phosphorothicate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Non-symmetric polymerase chain reaction amplification, useful for amplifying DNA by thermally cycling a PCR reaction mixture containing DNA amplification target sequence, a pair of PCR primers, dNTP's and
                                                                                                                                                                                                                                                                        Human inhibitor-kappa B-R antisense oligonucleotide, ISIS #130509.
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17-DEC-2002; 2002US-00320893
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                                                                                                                                modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                             Pierce K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates to a method of non-symmetric polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
/*tag= b
/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides"
                                                                             /note= "Phosphorothioate are 5-methylcytidines"
                                                                                                                                                 Location/Qualifiers
                                                                                                     mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 10 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hartshorn
                                                                                                                                                                                                                                                                                                                                                          В₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.8; DB 1; Length 20; Pred. No. 7.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. 7.70
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .7e+02;
                                                                                           backbone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                J, Sanchez
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                           All cytidine residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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RESULT 560
ADG25637
ID ADG256
XX
ADG256
XX
AC ADG256
XX
TObacc
XX
Tobacc
XX
Plant;
KW plant;
KW plant
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                                                                                                                                                                                                                                                                                                                                                                                                                                            ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to antisense compounds targetted to a nucleic acid molecule encoding human inhibitor-kappa B-R (also known as I-kappaBR, IKBR, I-kappa-B-related, ikappab r, nuclear factor of kappa light polypeptides gene enhancer in B-cells inhibitor-like 2 and NFKBILD) to inhibit its expression. Antisense compounds of the invention are useful for treating diseases or conditions associated with the expression of inhibitor-kappa B-R such as a heightened immune response involving increased cytokine expression, or a result of infection (e.g. bacterial, viral or parasitic). They are useful for diagnostics, therapeutics, prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, as research reagents and kits and in distinguishing between functions of various members of a biological pathway. They are also useful in antisense therapy. The present sequence is an oligonucleotide targetted to human inhibitor-kappa B-R DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                        plant; herbicide; serine hydroxymethyltransferase; SHMT; plant growth regulator; desiccant; defoliant; herbicide transgenic plant; mitochondrial; ss; primer; PCR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New antisense oligonucleotides targeted to nucleic acids encoding inhibitor-kappa B-R, useful for diagnosing or treating diseases associated with expression of inhibitor-kappa B-R, e.g., a heights immune response or infection.
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   13-MAR-2003; 2003WO-EP002574.
                                                                       WO2003078613-A2
                                                                                                          Nicotiana tabacum
                                                                                                                                                                                                                                                  26-FEB-2004
                                                                                                                                                                                                                                                                                     ADG25637;
                                                                                                                                                                                                                                                                                                                        ADG25637 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 7 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 3; Page 75; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Monia BP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-NOV-2001; 2001US-00993731
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                                                                                                                                                                                                                                                                                                                                                                                                                                                2642 TGCAGCTGCTGCAGCC 2660
                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                SHMT PCR primer SHMT1*2
                                                                                                                                                                                                                                                                                                                                                                                                               TGCAGCTGAGGCTGCAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Watt AT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                  (first entry)
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/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOB) nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.8;
Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length
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                                                                                                                                                                resistance;
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0;

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RESULT 561
ABZ88038/c
ID ABZ880
XX ABZ880
XX ABZ880
XX Human
XX Human;
KW Human;
KW antias
KW antias
KW lung i
XX Homo s
XX Ho
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes the novel use of plant nucleic acids, as target for herbicides and encoding a polypeptide with serine hydroxymethyltransferase (SHMT) activity. The products of the invention are used to identify new (selective) herbicides or plant growth regulators, e.g. desiccants or defoliants. The nucleic acids are also to generate mutants that encode enzymes resistant to particular herbicides, these mutants are used to prepare transgenic plants resistant to such herbicides. This sequence represents a PCR primer used to amplify the tobacco SHMT gene and allows the gene to be expressed in E. coli.
Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory Aissasson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory; steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene thera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 10 A; 2 C; 7 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New plant nucleic acid, useful in screening for herbicides and preparing herbicide-resistant plants, encodes serine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sonnewald U, Ehrhardt T,
                                                                                      WPI; 2003-229219/22.
                                                                                                                                          Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200285308-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human oligonucleotide sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hydroxymethyltransferase,
                                                                                                                                                                                                                                                                                     24-APR-2001; 2001US-0286137P
                                                                                                                                                                                                                                                                                                                                          23-APR-2002; 2002WO-US013135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ88038 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1175 AAATCAGAGAAAGAGAGAG 1193
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17; Conserv
                                                                                                                                                                                                                              EPIGENESIS PHARM INC
                                                                                                                                        Li Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAACCAGAGATAGAGAGAG 19
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Reindl A, Schmidt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                          ŗ
                                                                                                                                          Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20
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0; Mismatches
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                                                                                                                                          Katz
S;
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                                                                                                                                                                       Pabalan
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                                                                                                                                                                     Aguilar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for
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The invention relates to a novel pharmaceutical composition, which has a confirst active agent comprising an oligonucleotide antisense to the confirst active agent comprising an oligonucleotide antisense to the confirst and 3' intron-exon junctions, or regions within 2-10 nucleotides of junctions of genes encoding a polypeptide associated with lung and/or constant alrway dysfunction and a second active agent comprising an confirst antisense gene therapy. The composition of the invention constant antisense gene therapy. The composition is useful for treating or preventing a respiratory, lung or malignant disease or condition, also confirming ensitivity to adenosine therapy or reducing sensitivity to adenosine, reducing or depleting levels of activiting sufficient in a subject, for reducing levels of adenosine conformation, lung allergies, or a respiratory disease or condition. Confirming sufficient in a subject is tissue, or treating bronchoconstriction. Confirming sufficient in a subject is tissue, or treating bronchoconstriction. Confirming sufficient and subject is the summation of the sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO as for which the printed of the sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or ubiquinone.
                                                      at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID
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                                                 RESULT 562
                                                                                                            Best Loc
Matches
17-OCT-2003
                 ABZ85534
                                  ABZ85534 standard;
                                                                                                                    Local
                                                                                            2641 CTGCAGCTGCTGCAGC 2659
                                                                                                            l Similarity
17; Conserv
                                                                                                            0.3%;
ilarity 89.5%;
Conservative
(first entry)
                                  DNA;
                                  20
                                  BP.
                                                                                                          Score 15.8; DB 1; pred. No. 7.7e+02;
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                                                                                                                            1; Length 20;
                                                                                                              Indels
                                                                                                             0
                                                                                                             Gaps
                                                                                                              0
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Sequence 20

BP; 3 A; 7 C; 9 G; 1 T; 0 U; 0 Other;

Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory; antiallergic; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; WO200285308-A2 Homo antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung al sapiens. inflammation; respiratory disease; ds. allergy;

Human oligonucleotide sequence.

23-APR-2002; 2002WO-US013135.

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC.

Li Y, Sa Tang L, Sandrasagra A, L, Shahabuddin S Katz [F] Pabalan 'n Aguilar

2003-229219/22.

Pharmaceutical composition respiration, has oligo(s) a n for treating ailments associated with impaired antisense to specific gene(s) or its

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RESULT 563
ABZ90836
ID ABZ908
XX ABZ908
XX ABZ908
XX Human
XX Human
XX Human
XX Human
XX Human
XX Homo (
XX antiac
XX antiac
XX Homo (
XX Antiac
XX Antiac
PD 31-OC:
XX Homo (
X
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Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lung surfactant in a subject's tissue, or treating bronchoconstriction, lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the princed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel pharmaceutical composition, which has first active agent comprising an oligonucleotide antisense to the initiation codon, coding region, 5' or 3' end genomic flanking regions, 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200285308-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human oligonucleotide sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABZ90836;
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                                                                                              WPI; 2003-229219/22
                                                                                                                                                                                                                                                                                                        24-APR-2001; 2001US-0286137P
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                                                                                                                                                                                                                                            EPIGENESIS PHARM INC
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Tang
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                                                                                                                                                       Sandrasagra A,
L, Shahabuddin
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Pred. No. 7.7e+02;
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The invention relates to a novel pharmaceutical composition, which has a first active agent comprising an oligonucleotide antisense to the CC initiation codon, coding region, 5' or 3' end genomic flanking regions, CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory, antiallergic, antiasthmatic, hypotensive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC immunosuppressive, and cytostatic activity. The composition may have a CC greventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an antiinflammatory steroid in a subject, for reducing or depleting levels of of or reducing sensitivity to adenosine, reducing levels of adenosine receptor, producing bronchodilation, increasing levels of bufuinone or CC lung surfactant in a subject's tissue, or respiratory disease or condition.

CC Note: The sequence data for this patent is not represented in the printed aspecification, but was obtained in electronic format directly from WIPO as formations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              872pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                English
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Matches Query Match Best Local : Sequence 20 BP; 6 A; 2 C; 9 G; 3 T; 0 U; 0 Other; 2945 GAAACCTGAAGGAGCTGGA 2963 1 GAAAGCTGAAGGTGCTGGA 19 l Similarity 17; Conserv Conservative 0.3%; 0; Score 15.8; DB 1; Pred. No. 7.7e+02; Length 20 0, Gaps 0

at ftp.wipo.int/pub/published_pct_sequences

Human oligonucleotide sequence. 17-OCT-2003 ABZ85670 ABZ85670 standard; DNA; 20 (first entry) BP

Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy; lung inflammation; respiratory disease; ds. Homo sapiens.

WO200285308-A2

31-OCT-2002

23-APR-2002; 2002WO-US013135

24-APR-2001; 2001US-0286137P

(EPIG-) EPIGENESIS PHARM INC.

ω Li Y, Tang Ļ Sandrasagra A, L, Shahabuddin Katz E, S; Pabalan Ç Aguilar

WPI; 2003-229219/22.

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its

Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its

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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene thera
Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its
                                                              WPI; 2003-229219/22.
                                                                                                 Miller S,
                                                                                                                                                                                                                                                                                                                   WO200285308-A2
                                                                                                                                                                                                                                                                                                                                                                                              antisense gene therapy; respiratory; lung; edenosine sensitivity; adenosine receptor; bronchodilation; bronchodiconstriction; lung allergy; lung inflammation; respiratory discount
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Tang
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                                                                                                   Sandrasagra A,
L, Shahabuddin
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CC Note: The sequence data for this patent is not represented in the printed as pecification, but was obtained in electronic format directly from WIPO at the purpose.
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                        Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antialflammatory; steroid; ubiquinone; antiinflammatory; antiallergic; antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                       WPI; 2003-229219/22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human PDE4A oligonucleotide sequence.
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                                                                                            Sandrasagra A,
L, Shahabuddin
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Pred. No. 7.
                                                                                            Katz E,
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Pharmaceutical composition respiration, has oligo(s) a

n for treating ailments associated with impaired antisense to specific gene(s) or its

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RESULT 567
ACC47647/c
ID ACC476
CC junctions of genes encoding a polypeptide associated with lung and/or CC nasal airway dysfunction and a second active agent comprising an CC antiinflammatory steroid and ubiquinone. A composition of the invention CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive, CC immunosuppressive, and cytostatic activity. The composition may have a CC use in antisense gene therapy. The composition is useful for treating or CC preventing a respiratory, lung or malignant disease or condition, also CC for enhancing the prophylactic or therapeutic respiratory effect of an CC antiinflammatory steroid in a subject, for reducing or depleting levels of adenosine of receptor, producing bronchodilation, increasing levels of adenosine of lung surfactant in a subject's tissue, or treating bronchoconstriction, CC lung inflammation, lung allergies, or a respiratory disease or condition. Note: The sequence data for this patent is not represented in the printed cast for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; insulin-like growth factor binding protein 5; IGFBP5; IBP5; chromosome 2q33-34; IGF signal transduction; IGF regulation; apoptosis; bone growth stimulator; hyperproliferative disorder; cancer; tumour; breast; prostate; pancreas; neuroendocrine; inflammatory disorder; colitis; developmental disorder; growth disorder; disorder; buchenne muscular dystrophy; metabolic disorder; diabetes; osteoporosis; cytostatic; antiinflammatory; expression inhibition; phosphorothioate; antisense oligonucleotide; ss.
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                     07-OCT-2002; 2002WO-US032060
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                                                                                                                              WO2003030826-A2.
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/mote= "This oligonuclectide has a phosphorothicate
/note= "This oligonuclectide has a phosphorothicate
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backbone and 2'methyoxyethyl (2'-MOE) wings at the 5'
and 3' ends, which are 5 nuclectides in length. Also a
currentine residues are 5-methylcytosines"
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1. .20
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0; Mismatches
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                                                                                                                                                                                                       Also all
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                                                                                                                                                                                                                                                                                                                                                            RESULT 568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Coligonucleotides targeted to the human insulin-like growth factor binding protein 5 (IGFBP5) gene, which inhibit its expression. The antisense coligonucleotides were designed to target different regions of human CC IGFBP5 RNA, and were analysed for their effect on IGFBP5 expression by CC quantitative real-time PCR. IGFBP5 (also known as IBP5) is a member of CC the insulin-like growth factor superfamily, which are involved in the CC regulation of IGF action and bloavailability, and which also mediate IGF-CC independent actions, including inhibition or enhancement of apoptosis. CC IGFBP5 is a key component of the IGF system in bone, having a high CC specific binding affinity for hydroxyapatite and extracellular matrix CC proteins, and appears to act as a growth factor, stimulating bone CC formation via an IGF-independent mechanism. IGFBP5 is also expressed in CC other rissues, such as kidney, liver, gut endothelium, lung tubules and CC increased in inflamed colon smooth muscle and tongue. Its levels are also CC increased in inflamed colon smooth muscle calls in an experimental model CC of colitis. It is also thought to play a role in prostate cancer CC and has been shown to be induced in breast cancer cells upon treatment CC with anticestrogens used to abolish tamoxifen resistant proliferation. CC The oligonucleotides of the invention are useful for diagnosis, CC hyperproliferative disorders (particularly cancers of the breast, CC hyperproliferative disorders (particularly cancers of the breast,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense oligonucleotides for modulating insulin-like growth factor binding protein 5 gene expression, useful for preventing or treating cancers, inflammatory disorders, developmental disorders or metabolic
                                                                                Mus musculus
                                                                                                                                      antisense; p38 mitogen activated protein kinase; p38 MAPK;
inflammatory disease; autoimmune disease; rheumatoid arthritis;
                                                                                                                                                                                                                                           03-JUN-2004
                                                                                                                                                                                                                                                                                ADM34276
                                                                                                                                                                                                                                                                                                                       ADM34276 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        osteoporosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         prostate, pancreas or neuroendocrine system), inflammatory disorders (e.g., colitis), developmental or growth disorders (e.g., Duchenne muscular dystrophy), or metabolic disorders (e.g., diabetes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequences ACC47637-ACC47667 represent phosphorothicate antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 3; Page 76; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-381673/36.
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                                                                                                                       disease;
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17; Conserv
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nilarity 89.5%;
Conservative
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/*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.8; DB 1;
Pred. No. 7.7e+02;
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RESULT 569
ABD24268/c
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DT 29-JUL
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DE Human
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                         The invention relates to an antisense oligonucleotide 8-30 nucleobases in length targeted to the 5'-untranslated region, translational start site, translational termination region or 3'-untranslated region of a nucleic acid molecule encoding a p38 mitogen activated protein kinase (MAPK), where the antisense compound inhibits the expression of the p38 MAPK. The antisense oligonucleotide is useful for inhibiting the expression of p38 MAPK in cells or tissues. It is also useful for treating an animal having a disease or condition associated with p38 MAPK, e.g. an inflammatory or an autoimmune disease (e.g. rheumatoid arthritis) or a heart disease. In addition, the compound is used for diagnostics, prophylaxis, or as research reagents or kits. The present sequence represents a p38 MAPK antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense oligonucleotides for modulating p38 mitogen activated protein kinase (MAPK) expression, useful for diagnosing, preventing or treating diseases associated with p38 MAPK, e.g. inflammation or heart treating diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-APR-1999; 99US-00286904.
15-AUG-2000; 2000US-00640101.
 Human calmodulin 2-derived oligonucleotide SEQ ID
                              29-JUL-2004
                                                           ABD24268
                                                                                   ABD24268 standard; DNA; 20
                                                                                                                                                                                                                                                                  Sequence 20
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NERO P.
MCKAY R.
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16. .20
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/mod_base= Other
/note= "2'-methoxyethoxy nucleotides"
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/note= "Phosphorothicate
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/note= "2'-methoxyethoxy
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Pred. No. 7.7e+02
                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleotides"
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Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
                                                                                                                                                                                                                                                                                                                                                                                                                            pulmonary transplantation rejection; ss; primer
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Homo sapiens.

WO200285309-A2

23-APR-2002; 2002WO-US013143.

24-APR-2001; 2001US-0286036P

(EPIG-) EPIGENESIS PHARM INC

Nyce JW, Miller S, Li Y, Sa Tang L, Sandrasagra A, L, Shahabuddin ŝ Katz 'n Pabalan J, Aguilar D;

WPI; 2003-093058/08.

Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent. ő

Claim 15; SEQ ID NO 3280; 763pp; English

CC comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating control adenosine sensitivity, levels of adenosine (A) or (A) receptors, construction or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating configuration or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery construction for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung configuration, allergies, asthma, impeded respiration, respiratory transplantation, allergies, asthma, impeded respiration, respiratory transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonucleotides into products that free adenosine into the system ceg., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it This invention describes a novel composition (a) a first active agent,

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Matches 17
                       Similarity
              Conservative
                      0.3%;
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Pred. No. 7.
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CTGCAGCTGCTGCCGCCGC

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RESULT ABBUTTON AREA TO THE PROPERTY OF THE PR
This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating allergies and creducing adenosine sensitivity, levels of adenosine, allergies and comprision or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating compression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. Comprision of a target polypeptide associated with lung airway or lung compression of a target polypeptide associated with lung airway or lung compression of the invention also describes a kit, that comprises: (a) a delivery compression of the invention has antiallergic, antiaflammatory, antiasthmatic, comprises: (b) the oligonucleotides, (c) analgesic, hypotensive, immunosuppressive and cytostatic activity, is a compressive, immunosuppressive and cytostatic activity, is a compressive, in administered to reduce the administered to reduce the amount of target polypeptide present in the lungs. The composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to conformary obstruction, and/or bronchoconstriction are associated with a disease or condition such as pulmonary vasoconstriction.

Composition comprises and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction. Composition, allergies, asthma, impeded respiration, respiratory conditions, allergies, asthma, impeded respiration, respiratory conditions, allergies, asthma, impeded respirations, bronchitis or cancer.

Composition content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of thymidines present in the target RNA serves to prevent the breakdown of thymidines present in the target RNA serves to prevent the breakdown of thymidines pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
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7066
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
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Tang
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This invention describes a novel composition (a) a first active agent, comprising oligonuclectides, effective for alleviating throughout the composition of allergies and reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The coligonuclectides are derived from a gene encoding or regulating expression of a target polypeptide associated with lung sliway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered

Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and

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Claim 15; SEQ ID NO 912; 763pp; English.

bronchodilating agent.

WPI; 2003-093058/08.

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ABDZIJO/C 571
ABDZIJ90/C
ID ABDZIJ9
AC ABPA
AC ABP
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, Tang L,
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Pred. No. 7.7e+02
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                                                                                                                                                                                                                                               Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-APR-2001; 2001US-0286036P
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Tang L,
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L, Shahabuddin
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Pred. No. 7
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This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies and

Nyce JW, Miller S,

Li Y, Tang

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Shahabuddin

Sandrasagra A,

Katz E,

Pabalan J,

Aguilar D;

Claim

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SEQ ID NO 776;

763pp; English

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RESULT 573
ABD3199
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Cc inflammation, allergies, asthma, impeded respiration, respiratory cf distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary transplantation or ejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the oligonucleotides into products that free adenosine into the system c.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
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Matches 17
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                                                                                               EPIGENESIS PHARM INC
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Aguilar D;

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WPI; 2003-093058/08

pharmaceutical composition for treating asthma, has antisense oligonuclectide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and bronchodilating agent.

Claim 15; SEQ ID NO 14210; 763pp; English

CC comprising oligonucleotides, effective for alleviating
CC bronchoconstriction, respiratory tract inflammation, allergies and
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
CC surfactant depletion or hyposecretion, when administered to a mammal. The
CC expression of a target polypeptide associated with lung airway or lung
CC expression of a target polypeptide associated with lung airway or lung
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC The invention also describes a kit, that comprises: (a) a delivery
CC device, in separate containers, (b) the oligonuclectides, (c)
CC instructions for adding a carrier and for use of the kit. The composition
CC of the invention has antiallergic, antiinflammatory, antiasthmatic,
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC treating a respiratory, lung or malignant disease. The administered
CC composition comprises oligo and is administered to reduce the production
CC or availability, or to increase the degradation of the target mRNA or to
CC reduce the amount of target polypeptide present in the lungs. The
CC inflammation. allergies and/or surfactant hypotherion and/or lung
CC inflammation. allergies and/or surfactant hypotherion and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasoconstriction, inflammation, allergies, asthma, impeded respiration, respiratory distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to thymidines present in the target RNA serves to prevent the breakdown of the million of the serves to prevent the breakdown of the oligonucleotides into products that free adenosine into e.g., lung, brain, heart, kidney, etc, tissue environment an This invention describes a novel composition (a) a first active agent, any unwanted effects due to it allergies and receptors,

20 BP; 4 A; 7 C; 6 G; 3 T; 0 U; 0 Other;

Query Match Local l Similarity 17; Conserv Congervative 0.3%; Score 15.8; Ub ... nred. No. 7.7e+02; 0 DB 1; Length 20. Indels 0 0

밁 S з215 састосасствется з233 ب GACTGCAGCACGTCAGCTG 19

ABD23995 standard; DNA; 20 BP

Human calmodulin 2-derived oligonucleotide SEQ ID 3007. 29-JUL-2004 (first entry)

Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss;

Homo sapiens.

WO200285309-A2

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cc surfactant depletion or hyposecretion, when administered to a mammal. The capture of coligonucleotides are derived from a gene encoding or regulating compression of a target polypeptide associated with lung airway or lung diysfunction or cancer and can be anti-sense to the corresponding mRNA. The invention also describes a kit, that comprises: (a) a delivery comprises; (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, analgesic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or creating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition, allergies and/or bronchoconstriction and/or lung inflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vascoonstriction, respiratory transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonace and or availability or content of the anti-sense oligos corresponding to the million of the target RNA serves to prevent the breakdown of the million of the system of the many brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      comprising oligonucleotides, effective for alleviating bronchoconstriction, respiratory tract inflammation, allergies reducing adenosine sensitivity, levels of adenosine (A) or (A)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            bronchodilating agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-APR-2002; 2002WO-US013143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Li Y, Sang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 3007; 763pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      describes a novel composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sandrasagra A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Katz E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pabalan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (a) a first active agent,
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Sequence 20 BP; 7 A; 4 C; 8 G; 1 T; 0 U; 0 Other;

0

RESULT 575
ADF66213/c
ID ADF662
XX
AC ADF662
XX
AC ADF662
XX
DT 26-FEE
XX
DE Ian5 9
XX 문 ঠ Best Local Similarity Matches 17; Conserv Query Match Best Local : ADF66213 ADF66213 standard; DNA; 20 2833 GAGGGCAGGCACAGAT 2851 N 0.3%; ilarity 89.5%; Conservative 0; Mismatches Score 15.8; DB 1 Pred. No. 7.7e+02 DB 1; Length 20; Indels 0, Gaps

Ian5 gene related PCR primer SEQ ID NO:32

26-FEB-2004

(first entry)

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S
                                                                                                                                                                       The present invention describes a GAD65 polypeptide comprising an E517P CC mutation. The polypeptide is characterised by decreased specific binding CC to an antibody selected from GAD6, MICA-1, MICA-3, MICA-4 and MICA-6, CC where the decreased binding is relative to a corresponding GAD65 CC polypeptide not having the E517P mutation. Also described: (1) methods CC encode the rat Ian5(14) polypeptide; or or risk of type 1 diabetes in a subject; CC (2) an isolated mucleic acid selected from: (a) mucleic acids which encode the crat Ian5(14) polypeptide; or (c) full length complements of the nucleic acids of (a) or (b); (3) an antibody that: (a) specifically binds to rat Ian5(14) polypeptide; or (c) full length complements of the nucleic acids of (a) or (b); (3) an antibody is not immunologically cross-creative with human Ian5 or mouse Ian5 polypeptide; or (b) specifically cross-creative with human ian5 or mouse Ian5 polypeptide; or (b) specifically CC immunologically cross-reactive with rat Ian5(14), human Ian5 or mouse Ian5 (c) polypeptide; (4) an expression construct comprising the following celements linked in operable combination: a transcriptional promoter, a mucleic acid described above, and a transcriptional promoter; (5) a prokaryotic cell transformed or transferted with the cexpression construct described above; (6) a vector comprising the combinator; (5) a repression construct described above; (7) an isolated host cell comprising the vector; (8) a method for producing an Ian5 polypeptide; (c) antibody for developing gene therapy for type 1 diabetes are antagonists of an Ian5 comprising the vector; (8) a method for producing an Ian5 polypeptide; (10) methods for developing an enthod for producing an Ian5 polypeptide; (10) methods for developing and therapy for type 1 diabetes. The methods may also be constituted and composition and methods of the present invention are useful cidentify candidate spents for diabetes are development, or in developing gene therapy for type 1 diabetes. The methods may also be c
밁
                                                                                 Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New GAD65 polypeptide comprising an E517P mutation, useful for detecting the presence of or risk of developing type 1 diabetes or a related disorder in human subjects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAD65; type 1 diabetes; rat; Ian5(+); Ian5(1yp); Ian5; antidiabetic;
gene therapy; diabetes; PCR primer; ss.
                                                                                                                                                                  Sequence 20 BP; 1 A; 9 C; 2 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; SEQ ID NO 32; 87pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-MAY-2002; 2002US-0383913P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAY-2003; 2003WO-US017206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003102147-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-053464/05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UNIW ) UNIV WASHINGTON.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rattus sp.
                                       572 AGAAGGAGGAGCTGAAGGA 590
19 AGAAGAGGGAGCTGAAGGA 1
                                                                                                       Similarity
                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Luo D,
                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Macmurray A,
                                                                                 0
                                                                                                     Score 15.8;
Pred. No. 7
                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ettinger RA,
                                                                                                     7.7e+02
                                                                                                                           DB 1; Length 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Moralejo D;
                                                                                 0
                                                                                 Gaps
                                                                                 0;
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RESULT 576 ADG75970/c

RESULT 577
ADH26716/c
ID ADH267
XX
AC ADH267
XX
DT 11-MAR

ADH26716 standard; DNA; 20

ADH26716;

11-MAR-2004

(first entry)

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                          S
                                                                                                                                                    CC contain a non-palindromic sequence motif. Specifically, it refers to DNA CC oligonucleotides (without a CpG motif), which can stimulate an immune CC response is characterised by the proliferation, differentiation, cytokine CC and antibody production in B-cells, as well as cell differentiation and CC cytokine production in plasmacytoid dendritic cells. The present CC invention describes immunomodulator compositions that also comprise an CC cells and glycolipids. As such, these DNA oligos can be used in gene CC clls and glycolipids. As such, these DNA oligos can be used in gene CC chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell CC carcinoma. This oligonucleotide sequence is an immunostimulatory CC phosphorothioate non-CpG variant DNA oligo, used to determine the effect CC of oligo size on B cell proliferation and IL6 secretion in an CC exemplification of the invention.
                                                       Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     proliteration; differentiation; cytokine; antibody production; plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's arrangerenal cell carcinoma.
                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-MAY-2002; 2002CA-02388049.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAY-2003; 2003WO-EP005691.
                                                                                                                                                                                                                                                                                                                                                                                                                     This invention relates to novel immunostimulatory oligonuclectides that
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; SEQ ID NO 72; 139pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-053333/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2003101375-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADG75970 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lopez RA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (IMMU-) IMMUNOTECH SA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-DEC-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Immunostimulatory non-CpG phosphorothioate DNA oligo IMT189 SeqID72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-MAR-2004
                     5403 AAAAAAGAAAAATGAAAA 5421
                                                                                                                             BP; 1 A; 1 C; 1 G; 17 T; 0 U; 0 Other;
                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry
                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BP.
                                                             0
                                                                            Score 15.8;
Pred. No. 7.
                                                                 Mismatches
                                                                           .7e+02;
                                                                                                DB
                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immune response;
                                                                 Indels
                                                                                                20
                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B-cell;
                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     e.g.
                                                                 0;
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δ
                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a compound targeted to a nucleic acid molecule cancoding human phosphoinositide-3-kinase (PI3K) regulatory subunit 4, p150. The compound is an antisense oligonucleotide that specifically chybridises with a nucleic acid molecule encoding PI3K regulatory subunit 4, p150 and inhibits expression of the polypeptide. The antisense coligonucleotide comprises at least one modified internucleoside linkage i.e. a phosphorothioate linkage, at least one modified sugar moiety, preferably a 2'-0-methoxyethyl sugar moiety, or at least one modified nucleobase comprising a 5-methylotrosine. The antisense compounds are useful for modulating the expression of PI3K regulatory subunit 4, p150 and for preventing or treating hyperproliferative disorders (i.e. cancer), Chediak-Higashi syndrome, neurodegenerative disorders and metabolic disorders. These may also be used in research and diagnostics and in preventing or delaying infection or inflammation. This sequence capresents an antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense oligonucleotides inhibiting the expression of phosphoinositide-3-kinase, regulatory subunit 4, p150, usefu preventing or treating diseases associated with the subunit,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PI3 kinase; ss; antisense oligonucleotide; phosphorothioate li
2'-O-methoxyethyl sugar molety; s-methylcytosine;
hyperproliferative disorder; cancer; Chediak-Higashi syndrome;
neurodegenerative disorder; metabolic disorders; inflammation;
cytostatic; immunomodulator; neurodegenerative; antimicrobial;
Human; phosphoinositide-3-kinase regulatory subunit 4; p150; PI3K; PI3 kinase; ds; antisense oligonucleotide; phosphorothioate linkage;
                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 15; SEQ ID NO 51; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  preventing or treating diseases associated hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-051923/05.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAY-2002; 2002US-00160786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-MAY-2002; 2002US-00160786.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US2003225013-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human PI3K regulatory subunit 4,
                                                                                        11-MAR-2004
                                                                                                                                                            ADH26784 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antiinflammatory.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                    376 GGTGCCCTGGGATTTATAA 394
                                                     PI3K
                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      phosphoinositide-3-kinase regulatory subunit 4;
                                                                                                                                                                                                                                                 GGTGCCGTGGGATTTATCA 2
                                                     regulatory subunit 4,
                                                                                                                                                                                                                                                                                                                                                                                           BP, 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dobie KW;
                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                           A; 7 C; 4 G; 3 T; 0
                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                Score 15.8; Db .,
                                                                                                                                                                                                                                                                                                                       Mismatches
                                                     p150 DNA target region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         p150 DNA antisense oligonucleotide #41.
                                                                                                                                                                                                                                                                                                                                                                                           U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   p150; PI3K;
ioate linkage;
                                                     #31.
                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e.g.
                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 579
ADH65486
ID ADH654
XX ADH654
XX ADH654
XX ADH654
XX ATHENAN
DE Human
XX ATHENAN
DE Human
XX ATHENAN
XX ANTIBE
KW ANTIBE
KW ANTIBE
KW Gardio
KW Cardio
KW Cardio
KW Chomo B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE STATES AND SOUTH STATES AND SOUTH SOUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a compound targeted to a nucleic acid molecule encoding human phosphoinositide-3-kinase (PI3K) regulatory subunit 4, CC p150. The compound is an antisense oligonucleotide that specifically thybridises with a nucleic acid molecule encoding PI3K regulatory subunit 4, p150 and inhibits expression of the polypeptide. The antisense oligonucleotide comprises at least one modified internucleoside linkage oligonucleotide comprises at least one modified sugar molety, or at least one modified mucleosate comprising a 5-methylcytosine. The antisense compounds are useful for modulating the expression of PI3K regulatory subunit 4, p150 and for preventing or treating hyperproliferative disorders (i.e. cancer), Chediak-Higashi syndrome, neurodegenerative disorders and cometabolic disorders. These may also be used in research and diagnostics and in preventing or delaying infection or inflammation. This sequence concerned to target region of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New antisense oligonucleotides inhibiting the expression of phosphoinositide-3-kinase, regulatory subunit 4, p150, useful preventing or treating diseases associated with the subunit, e hyperproliferative disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2'-O-methoxyethyl sugar moiety; 5-methylcytosine; hyperproliferative disorder; cancer; Chediak-Higashi syndrome; neurodegenerative disorder; metabolic disorders; inflammation; cytostatic; immunomodulator; neurodegenerative; antimicrobial;
                                                               inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemia; Cushing's phosphorothioate backbone; 2'-methoxyethyl; 2'-MOB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                             antisense oligonucleotide; glucocorticoid receptor; infection;
                                                                                                                                                                                                                         Human glucocorticoid receptor-specific antisense oligonucleotide
                                                                                                                                                                                                                                                                                               25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                           ADH65486 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 15; SEQ ID NO 119; 62pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-MAY-2002; 2002US-00160786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-MAY-2002; 2002US-00160786.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     376 GGTGCCCTGGGATTTATAA 394
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGTGCCGTGGGATTTATCA 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 4 C; 7 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
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Pred. No. 7.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 20;
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                                                                                                    syndrome; human;
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                                                                                                       88
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Homo sapiens

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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents a pidaemia or Cushing's syndrome that target the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                                                                inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
                                                                                                                                                                                                                                                           antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obesity;
               WPI; 2004-035034/03
                                        Crosby SD,
                                                                                                                                                                             WO2003099215-A2
                                                                                                                                                                                                                                                                                                   Human glucocorticoid receptor-specific antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                               25-MAR-2004
                                                                                                                                                                                                                                                                                                                                                          ADH65757;
                                                                                                                                                                                                                                                                                                                                                                                   ADH65757 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 3 A; 12 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-MAY-2002; 2002US-0381857P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2003099215-A2
                                                                                                                        20-MAY-2003; 2003WO-US016084.
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                                                                                                                                                                                                        sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217 CACCACATCTCCCCTCACC 235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4; SEQ ID NO 2320; 985pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
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                                                                   PHARMACIA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                        Nalseth AE
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                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                              2002US-0381857P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               comprises an antisense oligonucleotides that are targeted
                                                                                                                                                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                                                                                                                                                   BP
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.8;
No. 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length .7e+02;
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                                                                                                                                                                                                                                                                                                    #2591
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FFFXSXOCOCOCOCXX
                                                                                                                                                Claim 4; SEQ ID NO 2591; 985pp; English.
                                                                                                                                                                   New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
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to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone. The invention comprises an antisense oligonucleotides that are targeted

Sequence 20 BP; 2 A; 11 C; 0 G; 7 T; 0 U; 0 Other;

Query Match Best Local S Matches 17 Similarity Conservative 0.3%; <u>.</u> Score Pred. Mismatches No. 7. .7e+02 DB 1; Length Indels 20; 0, Gaps 0;

밁 á 2564 AGGGGGAGAGAGATGGA 2582 AGGGGAAGAGGGAGATGGA 1

ADH66756 standard; DNA; 20

ADH66756;

25-MAR-2004

(first

entry)

Human glucocorticoid receptor-specific antisense oligonucleotide #3590.

cardiovascular disorder; hyperlipidaemia; Cushing's phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE. antisense oligonucleotide; glucocorticoid receptor; inflammation; tumour formation; diabetes; syndrome; human; infection;

sapiens.

WO2003099215-A2

04-DEC-2003

20-MAY-2003; 2003WO-US016084.

20-MAY-2002; 2002US-0381857P.

(PHAA) PHARMACIA CORP

SD, Nalseth

2004-035034/03.

New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, ob cardiovascular disorder, hyperlipidemia or Cushing's syndrome.

Claim 4. SEQ ID NO 3590; 985pp; English.

RESULT 581
ADH65756/C
ID ADH6577
XX ADH6572
XX ADH6672
XX ADH672
XX ADH6672
X The invention comprises an antisense oligonucleotides that are targeted to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone.

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RESULT 583
ADJ46820/c
ID ADJ468
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ADH67178
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Best Local S
Matches 17
                                                                                                                                  Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                      to nucleic acids encoding a mammalian glucocorticoid receptor. The antisense oligonucleotides of the invention are useful for preventing or delaying infection, inflammation or tumour formation. The antisense oligonucleotides are also useful for treating diabetes, obesity, cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The present DNA sequence represents an antisense oligonucleotide that targets the human glucocorticoid receptor gene. NOTE: The present sequence contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothicate backbone.
                                                                                                                                                                                                                                                                                                                                                                                                         New antisense compound targeted to a nucleic acid molecule encoding mammalian glucocorticoid receptor, useful for treating diabetes, obesity, cardiovascular disorder, hyperlipidemia or Cushing's syndrome.
                                                                                                                                                                                             Sequence 20 BP; 3 A; 11 C; 0 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antisense oligonucleotide; glucocorticoid receptor; infection; inflammation; tumour formation; diabetes; obesity; cardiovascular disorder; hyperlipidaemis; Cushing's syndrome; human; ss; phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human glucocorticoid receptor-specific antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADH67178;
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                                                                                                                                                                                                                                                                                                                                                 The invention comprises an antisense oligonucleotides that are targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-035034/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-MAY-2002; 2002US-0381857P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (PHAA ) PHARMACIA CORP
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les 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2566 GGGGAGAGAGATGGAGA 2584
                                                                                                       217 CACCACATCTCCCCTCACC 235
                                                                                                                                                                                                                                                                                                                                                                              4; SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGAAGAGGGAGATGGAGA 2
                                                                           CATCACATCTCCCCTCTCC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nalseth
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ilarity 89.5%;
Conservative
                                                                                                                                     Conservative
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                                                                                                                                              89.5%;
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                                                                                                                                Score 15.8; DB 1;
Pred. No. 7.7e+02;
0; Mismatches 2
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Pred. No. 7.7e+02.
0; Mismatches
                                                                                                                                                                 DB 1;
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                                                                                                                                   Gaps
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ADJ46820 standard; DNA; 20 BP

05-FEB-2004

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RESULT 584
ADJ46745
ID - ADJ467
XX ADJ467
XX O6-MAY
XX DT 06-MAY
XX Human
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a compound targeted to and which specifically hybridises with a nucleic acid molecule encoding KIAA1531 and inhibits the expression of KIAA1531. The compound, composition and methods are useful for treating a disease or condition associated with KIAA1531, such as a hyperproliferative disorder, e.g. cancer, a disease or condition involving hyperactivation of anglogenesis, or chronic inflammation. They are also useful in research and diagnostics for modulating the expression of KIAA1531. The present sequence represents a human KIAA1531 target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New compound, particularly an antisense oligonucleotide targeted to a nucleic acid encoding KIAA1531, useful for treating cancer, chronic inflammation or conditions involving hyperactivation of angiogenesis.
                                                                                       US2004023378-A1
                                                                                                                                                                                                                           angiogenesis
                                                                                                                                                                                                                              human; KIAA1531; hyperproliferative disorder;; cancer; angiogenesis hyperactivation; chronic inflammation; ss
                                                                                                                                                                                                                                                                                                                     Human
                                                                                                                                                                                                                                                                                                                                                                              06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADJ46745 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-142659/14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-JUL-2002; 2002US-00210290
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human KIAA1531 target
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                                                                                                                                          Synthetic
                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2318 CCATCATCTCCACCTTCTT 2336
                                                                                                                                                                                                                                                                                                                  KIAA1531 antisense oligonucleotide ISIS #208169.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCACGATCTCCACCTTCTT
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                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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Pred. No. 7.
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2;
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RESULT 585
ADJ60851
ID ADJ608
XX ADJ608
XX ADJ608
XX INTEGRICA
DT 06-MAY
XX Oligon
XX interl
KW interl
KW cystic
KW pulmon
KW pulmon
KW pulmon
KW BS.
XX WO2004
XX WOYEL
PT Shahak
XX WOYEL
PT initia
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a compound targeted to and which specifically hybridises with a nucleic acid molecule encoding KIAAL531 and inhibits the expression of KIAAL531. The compound, composition and methods are useful for treating a disease or condition associated with KIAAL531, such as a hyperproliferative disorder, e.g. cancer, a disease or condition involving hyperactivation of angliogenesis, or chronic inflammation. They are also useful in research and diagnostics for modulating the expression of KIAAL531. The present sequence represents a human KIAAL531 antisense
                                                                                                                                                                                                                                                                                                                                                 interleukin; IL-4 receptor; IL-5 receptor; lung disease; airway inflammation; allergy; asthma; impeded respiration; cystic fibrosis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New compound, particularly an antisense oligonucleotide targeted to a nucleic acid encoding KIAA1531, useful for treating cancer, chronic inflammation or conditions involving hyperactivation of angiogenesis.
Novel single or multiple target oligonucleotide anti-sense to e.g. initiation codons and introns of respiratory disease-relevant genes e.g., CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory
                                                                                             Nyce JW, Tang
Shahabuddin S,
                                                                                                                                                                                                                                                                       WO2004011613-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                Oligonucleotide associated to PDE4A #134.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADJ60851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADJ60851 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 oligonucleotide.
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                                                                                                                                                                            29-JUL-2002; 2002US-0399076P
                                                                                                                                                                                                           25-JUL-2003; 2003WO-US023509.
                                                                                                                                                                                                                                          05-FEB-2004
                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ISIS-) ISIS PHARM INC.
                                                                                                                                             (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2318 CCATCATCTCCACCTTCTT 2336
                                                                 2004-203534/19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       l Similarity
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Lu >
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                             Sandrasagra
H, Cong H;
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); Mismatches
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                                                                                                             Aguilar D,
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RESULT 586
ADJ18373/C
ID ADJ18373/C
ID ADJ183
XX ADJ183

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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease e.g., asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    human; ss; liver related homologue-1; LRH1; NR5A2; antisense; phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis; low HDL; high density lipoprotein; high LDL; hypercholesterolaemia; gall stone; triglyceridaemia; obssity; hepatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ18373 standard;
                                08-JAN-2004.
                                                                                            WO2004003201-A2
                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hepatocellular carcinoma; aromatase; cytostatic; antilipaemic; antiarteriosclerotic; anorectic; hepatotropic; litholytic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense DNA oligo used to modulate human LRH1 expression SeqID 2923.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Match 0.3%; Score 15.8; DB 1; Local Similarity 89.5%; Pred. No. 7.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3215 GACTGCAGCTGGTCAGCTG 3233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 1707; 85pp; English
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                                                                                                                                                                                                                                                                                             /mod_base= OTHER
/note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
/vridine nucleobases are 5-methylcytidine."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mod_bas
/label=
                                                                                                                                                   /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides.
rytidine nucleobases are 5-methylcytidine."
                                                                                                                                                         cytidine nucleobases
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/mod_ba
                                                                                                                                                                                                                                                                                   16. .20
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
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                                                                                                                                                                                                                   base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER= phosphorothicate backbone
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RESULT 587
ADJ18838/c
ID ADJ188
XX ADJ188
XX ADJ188
XX ADJ188
XX ANTise
XX Antise
XX Antise
XX human;
XW phosph
KW how HC
KW pall s
KW hepatc
KW antisi
KW Antise
KW A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to novel antisense compounds useful for modulating CC the expression of liver related homologue-1 (LRH1) and splice variants CC thereof. Specifically, it refers to compositions 9-30 nucleobases in CC length that target a portion of an active site on the nucleic acid CC molecule encoding LRH1 (also known as MFSA2). LRH1 is a monomeric orphan CC nuclear receptor protein that functions 8-3 a tissue specific CC transcription factor. The present invention describes antisense CC linkage, a phosphorothicate linkage, at least one modified internucleoside CC linkage, a phosphorothicate linkage, at least one modified sugar moiety, CC a 2'-O-methoxyethyl (2' MOS) and at least one modified nucleobase, a 5-CC methylcytidine. These antisense compounds are useful for treating or CC disgnosing a disease associated with LRH1, such as breast cancer, CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high CC LDL (low density lipoprotein), hypercholesterolaemia, gall stones, CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic CC triglyceridaemia, abecocclaudia activities activity. Accordingly, these compositions exhibit CC cytostatic, antilipaemic, antiareriosclerotic, anorectic, hepatitron associated coligonucleotide sequence is an antisense DNA oligo used to modulate the expression of the human LRH1 protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                        human; ss; liver related homologue-1; LRH1; NR5A2; antisense; phosphorothioate; 2' MOB; breast cancer; dyslipidaemia; atherosclerosis; low HDL; high density lipoprotein; high LDL; hypercholesterolaemia; gall stone; triglyceridaemia; obesity; hepatitis; hepatocellular carcinoma; aromatase; cytostatic; antilipaemic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New antisense oligonucleotides targeted to a nucleic acid encoding related homologue-1 (LRH1), useful for treating breast cancer, dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                 antiarteriosclerotic; anorectic;
antiinflammatory; virucidal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-2004
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                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense DNA oligo used to modulate human LRH1 expression SeqID
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                                                                                                                                                                     Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
Location/Qualifiers
1. .20
/*tag= b
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89.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.8; DB 1
Pred. No. 7.7e+02
                                                                                                                                                                                                                                                                        hepatotropic; litholytic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
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ADK74191/c
ID ADK741
XX
AC ADK741
XX
DT 20-MAY

ADK74191 standard;

DNA; 20

ВÞ

20-MAY-2004 ADK74191;

(first entry)

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RESULT

588

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This invention relates to novel antisense compounds useful for modulating the expression of liver related homologue-1 (LRH1) and splice variants contered. Specifically, it refers to compositions 8-30 nucleobases in college that target a portion of an active site on the nucleic acid molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan conclear receptor protein that functions as a tissue specific transcription factor. The present invention describes antisense colligonucleotides that comprise at least one modified internucleoside collinkage, a phosphorothicate linkage; at least one modified sugar moiety. Clarks, a phosphorothicate linkage; at least one modified nucleobase, a 5-cm ethylcytidine. These antisense compounds are useful for treating or clagnosing a disease associated with LRH1, such as breast cancer, cypildaemia, atherosclerosis, low HDL (high density lipoprotein), high criglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic cypiostatic, antilipaemic, antiarteriosclerosic, anorettic, hepatotropic, citholytic, antilipaemic, antiarteriosclerosic, anorettic, hepatotropic, antiarteriosclerosic, anorettic, hepatotropic, colligonucleotide sequence is an antisense DNA oligo used to modulate the corposesion of the human LRH1 protein of the invention.
                                                                                                                                 Query Match
Best Local &
                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense oligonucleotides targeted to a nucleic acid encoding related homologue-1 (LRH1), useful for treating breast cancer, dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kane
                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 15; SEQ ID NO 3388; 909pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUL-2002; 2002US-0392813P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUL-2003; 2003WO-US020865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PHAA ) PHARMACIA CORP
                                                     1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2004-083058/08
19
                                                                                                                                    Similarity
                                      AGCATGTCTTCTACTTCAG 1625
AGAATGTCTTCTAATTCAG 1
                                                                                                                                                                                                                          BP; 7 A; 3 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "OTHER= 2' met
cytidine nucleobases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *tag= \( mod_base= OTHER \)

"OTHER= 2'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mod_base= OTHER
                                                                                                                                    89.5%;
                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER= phosphorothicate backbone
                                                                                                             0
                                                                                                                                       Score 15.8;
Pred. No. 7
                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   methoxyethyl (2' MOB) nucleotides.
ses are 5-methylcytidine."
                                                                                                                                       .7e+02
                                                                                                                                                                        DB 1;
                                                                                                                                                                     Length 20
                                                                                                             0,
                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A11
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ADK80791
ID ADK807
XX ADK807
XX ADK807
XX CO-MAY
XX CO-MAY
XX CO-MAY
XX XX CO-MAY
XX XX XX CO-MAY
XX XX XX Infant
XX Infant
XX Synthe
XX Synthe
XX M02004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nucleic acid molecule encoding Navi.3, where the antisense compound specifically hybridizes with and inhibits the expression of Navi.3. The compound and composition are useful for treating a disease or condition associated with Navi.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, migraine headache, cluster headache, migraine headache, cluster headache, migraine headache, cluster headache, mid-to-moderate but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothioate oligonucleotide with 2'MOZ wings and a deoxy gap. Used during the antisense inhibition of human Navi.3 expression, the oligonucleotides are designed to target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache;
     WO2004016754-A2
                                                                                                                                         Chimeric phosphorothioate oligonucleotide to target Nav1.3 #8125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 2 A; 6 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to an antisense compound targeted to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 4; SEQ ID NO 1525; 417pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-203785/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14-AUG-2002; 2002US-0403416P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-AUG-2003; 2003WO-US025465.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-FEB-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chimeric phosphorothioate oligonucleotide to target Navl.3
                                                                                      diabetic neuropathy; arthritic pain; migraine headache;
                                                                                                      Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia;
                                                                                                                                                                               20-MAY-2004
                                                                                                                                                                                                                                                   ADK80791 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             infantile
                                                                     infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                  ADK80791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (PHAA ) PHARMACIA CORP.
                                                                                                                                                                                                                                                                                                                                                                         1676 GAAAAGATGGGACAGCCAC 1694
                                                                                                                                                                                                                                                                                                                                                                                                             17;
                                                                                                                                                                                                                                                                                                                                        19
                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                        GAAAAGATGGCACAGGCAC 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                                   ВP
                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.8;
Pred. No. 7
                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      Db
7.7e+02;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 20
                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #1525
                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 590
ADK75025/G
ID ADK750
XX Chimer
XX ADK750
XX A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present invention relates to an antisense compound targeted to a nucleic acid molecule encoding Navl.3, where the antisense compound generatically hybridizes with and inhibits the expression of Navl.3. The compound and composition are useful for treating a disease or condition associated with Navl.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate pain from burns, migraine headache, cluster headache, mild-to-moderate pain from burns, migraine headache, cluster headache, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothioate oligonucleotide with 2° MOS wings and a deoxy gap. Used during the antisense inhibition of human Navl.3 expression, the oligonucleotides are designed to target different regions of the human Navl.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associwith Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 8 A; 4 C; 3 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chimeric phosphorothioate oligonucleotide to target Nav1.3 #2359.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 4; SEQ ID NO 8125; 417pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-AUG-2002; 2002US-0403416P
                                                                                                                                   14-AUG-2002; 2002US-0403416P
                                                                                                                                                                                             14-AUG-2003; 2003WO-US025465.
                                                                                                                                                                                                                                                                                                                                    WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADK75025;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADK75025 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2004-203785/19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1349 AAAAATTCACACAGCTGCT 1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.8; DB 1;
Pred. No. 7.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>.</u>
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(PHAA) PHARMACIA CORP

WPI;

2004-203785/19.

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RESULT 591
ADK80516
ID ADK805
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid molecule encoding Nav1.3, where the antisense compound specifically hybridizes with and inhibits the expression of Nav1.3. The compound and composition are useful for treating a disease or condition associated with Nav1.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; selzure disorder such as childhood selzure disorder, including but not limited to neonatal or infantile epilepsy, or ataxia. The present sequence represents a chimeric phosphorothicate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Nav1.3 expression, the oligonucleotides are designed to target different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New antisense compound targeted to a nucleic acid molecule encoding Navl.3, useful for useful for treating a disease or condition associated with Navl.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                           New antisense compound targeted to a nucleic acid molecule encoding Nav1.3, useful for useful for treating a disease or condition associated with Nav1.3, e.g. pain, seizure disorder such as childhood seizure disorder, or ataxia.
                                                                                                                                                                                                                                                                                                                                                                                  Nav1.3; Analgesic; Nootropic; Neuroprotective; post-herpetic neuralgia; diabetic neuropathy; arthritic pain; migraine headache; infantile epilepsy; ataxia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chimeric phosphorothioate oligonucleotide to target Navl.3 #7850.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 4; SEQ ID NO 2359; 417pp; English.
                                                                                                                                                                                                                                                                                                                       WO2004016754-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADK80516 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present :
                                                                                                                                                                                                                         14-AUG-2002; 2002US-0403416P
                                                                                                                                                                                                                                                       14-AUG-2003; 2003WO-US025465.
                                                                                                                                                                                         (PHAA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1677 AAAAGATGGGACAGCCACT 1695
                                                                                                                           2004-203785/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                           PHARMACIA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAAAGATGGCACAGGCACT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20 BP; 2 A; 6 C; 4 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         relates to an antisense compound tare encoding Nav1.3, where the antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.8;
Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .7e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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Claim

SEQ

IJ

NO 7850;

417pp;

This invention describes a

novel antisense oligonucleotides which

Example 15,

SEQ ID NO

51; 60pp;

English.

treating cancer, Chediak-Higashi syndrome

얁

: 4, p150, us a metabolic

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RESULT 592
ADL34605/c
ID ADL346
XX Cytost
XX ADL346
XX A
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense; inhibitor; hybridisation; human; phosphoinositide-3-kinase; regulatory subunit 4; p150; internucleoside linkage; phosphorothicate linkage; 2'-O-methoxyethyl sugar; 5-methylcytosine; infection; inflammation; tumour formation; hyperproliferative disorder cancer; Chediak-Higashi syndrome; metabolic disorder; immunomodulator;
                                                                                                                                                           New antisense compound targeted to a nucleic acid molecule encoding phosphoinositide-3-kinase, regulatory subunit 4, p150, useful for
                                                                                                                                                                                                                                                           WPI; 2004-282523/26.
                                                                                                                                                                                                                                                                                                                      Freier SM, Dobie KW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-MAY-2002; 2002US-00160786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-SEP-2003; 2003US-00667022.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADL34605;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADL34605
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               different regions of the human Nav1.3 RNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISIS antisense oligonucleotide ISIS 206997.
                                                                                                                                                                                                                                                                                                                                                                                     (FREI/) FREIER S M
(DOBI/) DOBIE K W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1349 AAAAATTCACACAGCTGCT 1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAGTTCACAAAGCTGCT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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1. .20
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/mod_base= OTHER
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Pred.
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No. 7.7e+02;
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RESULT 593
ADL34673
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Best Local S
Matches 17
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This invention describes a novel antisense oligonucleotides which specifically hybridises to and inhibits the expression of human phosphoinositide-3-kinase, regulatory subunit 4, p150. The oligonucleotides comprises at least one modified internucleoside linkage, preferably a phosphorothioate linkage. It also comprises at least one modified sugar moiety, preferably a 2'-O-methoxyethyl sugar moiety. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antisense; inhibitor; hybridisation; human; phosphoinositide-3-kinase; regulatory subunit 4; p150; internucleoside linkage; phosphorothioate linkage; 2'-O-methoxyethyl sugar; 5-methylcytosine; infection; inflammation; tumour formation; hyperproliferative disorder; cancer; Chediak-Higashi syndrome; metabolic disorder; immunomodulator;
                                                                                                                                                                                 New antisense compound targeted to a nucleic acid molecule encoding phosphoinositide-3-kinase, regulatory subunit 4, p150, useful for treating cancer, Chediak-Higashi syndrome or a metabolic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAY-2002; 2002US-00160786
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Phosphoinositide-3-kinase regulatory subunit 4 p150 fragment 124633.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                         (FREI/)
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DOBIE K W.
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                                                                                                                                                                                                                                                                                                              Dobie KW
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                                                                                                                                             English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
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RESULT 594
AD046340
ID AD0463
XX AD0463
XX AD0463
XX AD0463
XX Human,
XX Human,
XX Human,
XX CCRL;
XW CCRL;
XW CCRL;
XW CCRU;
XW Asthmac
XX Homo &
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; 88; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5; CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a; tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease; lung disease; hyper-responsiveness; adenosine; adenosine A receptor; asthma; lung allergy; inflammation; inflammatory disease; airway inflammation; allergy; impeded respiration; cystic fibrosis; CP; chronic obstructive pulmonary disease; COPD; allergic rhinitis; acute respiratory distress syndrome; pulmonary hypertension; lung inflammation; bronchitis; airway obstruction; bronchoconstriction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
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                                                                                                                                                                                                                                                   Shahabuddin
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23-APR-2002;
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                                                                                                                                                                                                                                                                                                                                                         MILLER S.
SHAHABUDDIN
LU H.
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                                                                                                                                                                                                                                                                                                                                  CONG H.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TANG L.
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                                                                                                                                                                                                                                          Sandrasagra A, Ia
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2002WO-US013143.
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mg H;
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Pred. No. 7.7e+02;
0; Mismatches 2;
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Novel single or multiple target oligonucleotide anti-sense to e-initiation codon, intron of respiratory disease-relevant gene e-RANTES, MCP4, useful for prophylaxis or treating respiratory dis

disease

e.g.

Claim 2;

SEQ

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1707; 174pp;

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RESULT 595
AD031986/c
ID AD0319
XX AD0319
XX AD0319
XX AD0319
XX Cyclin
XX Cyclin
XX Antise
KW A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to oligonucleotides anti-sense to an initiation CC codon, coding region, 5' or 3' intron-exon junction, intron or region CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target CC chosen from a gene encoding interleukin (II)-4 receptor, interleukin (II) CC -5 receptor, CCR1, CCR3, Ectaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, CC tryptase a, tryptase b, PD84 A, PD84 B, PD84 C or PD84 D. The invention CC also relates to a method of screening a candidate compound that binds to one or more nucleic acid target(s) or expressed product(s), for the CC prevention and/or treatment of a respiratory or lung disease. The CC oligonucleotides are useful for reducing or inhibiting expression of a congene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor, CC CCR1, CCR3, Estaxin-1, RANTES, MCP4, CD23, ICAM, UrDytase a, CC tryptase b, PD84 B, PD84 C, or PD84 D. The oligonucleotides are cuseful for preventing or treating a respiratory or lung disease. The CC useful for preventing or treating a respiratory or lung disease to and/or increased levels of, adenosine and/or levels of adenosine A CC receptor(s), and/or asthma and/or lung allergies associated with CC inflammation or an inflammatory disease. The respiratory or lung disease is chosen from airway inflammation, allergy, asthma, impeded respiration, CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD), callergic rhintis a crite respiratory distress and orms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cyclin-dependent kinase 6, antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADO31986 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 4 A; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           allergic rhinitis, acute respiratory distress syndrome, pulmonary hypertension, lung inflammation, bronchitis, airway obstruction or bronchoconstriction. This sequence represents an oligonucleotide o
                                                                                                                                                                                                                                                                                                       WPI; 2004-356241/33.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-JUL-2002; 2002US-00210802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-JUL-2002; 2002US-00210802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004087523-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          viral infection; apoptosis; ss; probe; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 antisense therapy; cyclin-dependent kinase 6;
hyperproliferative disorder; cancer; bacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-JUL-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                           Freier SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3215 GACTGCAGCTGGTCAGCTG 3233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GACTGCAGCACGTCAGCTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                           Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВÞ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.8;
Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer; bacterial infection,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
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disease or condition associated with cyclin-dependent kinase 6, such as a hyperproliferative disorder (e.g. cancer), or conditions arising from bacterial or viral infections, or involving aberrant apoptosis. They are also useful in research and diagnostics for modulating the expression of cyclin-dependent kinase 6. The present sequence represents a cyclin-dependent kinase 6 antisense oligonucleotide. Note: Seqid 15-134 are also used in Tables 1 and 2 (page 30-34) but these sequences do not match sequind 15-134 of the seq list.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to antisense oligonucleotides targeted to cyclin-dependent kinase 6, and which inhibit the expression of cyclin-dependent kinase 6. The antisense oligonucleotides are useful for treating a
Sequence 20 BP; 6 A; 1 C; 9 G; 4 T; 0 U; 0 Other;
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                     Matches
                         Query Match
Best Local (
         2318 CCATCATCTCCACCTTCTT 2336
19
                         Similarity
                    Conservative
                         0.3%;
                    0
                         Score 15.8; DB 1
Pred. No. 7.7e+02
                     Mismatches
                              DB 1; Length 20
                     0
                     Gaps
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0

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RESULT 596
AD031911
ID AD0319
XX AD0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-JUL-2002; 2002US-00210802.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-JUL-2002; 2002US-00210802.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cyclin-dependent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AD031911;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADO31911 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  kinase 6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           infection;
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New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding cyclin-dependent kinase 6, useful for treating cancer, bacterial/viral infection or conditions involving aberrant

WPI; 2004-356241/33. Freier SM, Dobie KW;

Disclosure; SEQ ID NO 22; 68pp; English.

The invention relates to antisense oligonucleotides targeted to cyclin-dependent kinase 6, and which inhibit the expression of cyclin-dependent kinase 6. The antisense oligonucleotides are useful for treating a disease or condition associated with cyclin-dependent kinase 6, such as a hyperproliferative disorder (e.g. cancer), or conditions arising from bacterial or viral infections, or involving aberrant apoptosis. They are also useful in research and diagnostics for modulating the expression of cyclin-dependent kinase 6. The present sequence represents a cyclin-dependent kinase 6 antisense oligonucleotide. Note: Seqid 15-134 are also used in Tables 1 and 2 (page 30-34) but these sequences do not match seqid 15-134 of the seq list.

New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding cyclin-dependent kinase 6, useful for treating cancer, bacterial/viral infection or conditions involving aberrant

Disclosure, SEQ ID NO

97; 68pp; English

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RESULT 597
ADN94856
ID ADN948
XX ADN948
XX ADN948
XX Human
XX Human
XX Human
XX Homo
X
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  Query Match
Best Local Similarity
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                                                                                                                 The invention relates to antisense oligonucleotides which are targeted to, and inhibit the expression of, a nucleic acid molecule encoding nidogen. The antisense oligonucleotides are useful for treating a disease or condition associated with nidogen, such as Chediak-Higashi syndrome. They are also useful in research and diagnostics for modulating the expression of nidogen. The present sequence represents a human nidogen antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                         New compounds, particularly oligonucleotides targeted to a nucleic acid encoding nidogen, useful for treating diseases associated with nidogen, e.g. Chediak-Higashi syndrome.
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                                                                       Sequence 20 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-389192/36.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; Antisense Therapy; Gene Therapy; nidogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human nidogen
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                                                                                                                                                                                                                                                                                                            Example 15; SEQ ID NO 61; 91pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2318 CCATCATCTCCACCTTCTT 2336
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dobie KW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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/note= "Phosphorothioate
methylcytidines"
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/note= "2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'note=
                                                                       A; 8 C; 5 G; 5 T; 0 U; 0 Other;
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  0.3%;
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  Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.8; Db 1;
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15.8; DB 1;
No. 7.7e+02;
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to antisense oligonucleotides which are targeted to, and inhibit the expression of, a nucleic acid molecule encoding nidogen. The antisense oligonucleotides are useful for treating a disease or condition associated with nidogen, such as Chediak-Higashi syndrome. They are also useful in research and diagnostics for modulating the expression of nidogen. The present sequence represents a human nidogen antisense oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New compounds, particularly oligonucleotides targeted to a nucleic acid encoding nidogen, useful for treating diseases associated with nidogen, e.g. Chediak-Higashi syndrome.
cytostatic; AP-2-Inhibitor-Alpha; AP-2 alpha; AP-2 AP-2 alpha associated disorder; hyperproliferative
                                                                                 Transcription factor AP-2 antisense oligonculeotide seqid 67.
                                                                                                                                                                                                                                                 ADP20520 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human; Antisense Therapy; Gene Therapy; nidogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human nidogen antisense oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 5 A; 5 C; 8 G; 2 T; 0 U; 0 Other;
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Pred. No. 7.7e+02;
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     alpha modulator;
disorder; human;
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RESULT 600
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(19868 bp, SEQ ID NO: 4), and inhibits the expression of AP-2 alpha. Also described are:inhibiting the expression of AP-2 alpha in cells or tissues comprising contacting the cells or tissues with (I); screening for a modulator of AP-2 alpha by contacting a preferred target segment of a mucleic acid molecule encoding AP-2 alpha with one or more candidate modulators of AP-2 alpha, and identifying one or more modulators of AP-2 alpha, and identifying one or more modulators of AP-2 alpha, and identifying one or more modulators of AP-2 alpha expression, which modulate the expression of AP-2 alpha; a dispossitic method for identifying a disease state; and a kit or assay device comprising (I). The compound is useful for treating an animal having a disease or condition associated with AP-2 alpha, particularly a hyperproliferative disorder. The compounds may be used for disgnostics, therapeutics prophylaxis and as research reagents; or as tools in differential and/or combinatorial analyses to elucidate expressed within cells and tissues. This sequence represents a human transcription factor AP-2 antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New compounds targeted to nucleic acid molecules encoding AP-2 alpha and inhibits the expression of AP-2 alpha, useful for treating AP-2 alpha-associated disease or condition, particularly a hyperproliferative
                                                                                                                     CNS; zinedin modulator; zinedin; zinedin associated disorder; neuronal disorder; zinedin modulator; human; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes a compound (I) 8-80 nucleobases in length targeted to a nucleic acid molecule encoding AP-2 alpha. The compound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 15; SEQ ID NO 67; 58pp; English.
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                               Homo sapiens
                                                                                            antisense technology; ss.
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17; Conserv
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Pred. No. 7.
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7.7e+02;
2;
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RESULT 601
AAQ75681/c
ID AAQ756
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AC AAQ756
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AC AAQ756
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OT 04-AUG

AAQ75681 standard; DNA; 21

BP

04-AUG-1995 AAQ75681;

(first entry)

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CC to, and which specifically hybridizes with, a nucleic acid molecule care: inhibiting the expression of zinedin. Also described care: inhibiting the expression of zinedin in cells or tissues by contacting the cells or tissues with the compound so that expression of contacting the cells or tissues with the compound so that expression of contacting is inhibited; screening a modulator of zinedin by contacting a preferred segment of a nucleic acid molecule encoding zinedin with one or contacting a contacting a contacting a condulators of zinedin expression which modulate the expression of zinedin in a condulators of zinedin expression which modulate the expression of zinedin in a contacting any of the primers or probes given in the specification; a contact of the primers or probes given in the specification; a contact of the sine of zinedin is inhibited. The compound; and treating an animal a therapeutic or prophylactic amount of the compound so that expression zinedin is inhibited. The compount of the compound so that care useful for treating a disease or condition associated with zinedin, contacting an animal and contacting a disease or condition associated with zinedin, contacting an animal and therapeutic or prophylactic amount of the compound so that expression zinedin is inhibited. The compount of the compound so that care useful for treating a disease or condition associated with zinedin, contacting an animal and contacting and animal animal and contact or condition associated with zinedin, contact and contact or condition associated with zinedin, contact and contact or condition associated with zinedin, contact or condition associated with zine
                                                                                                                                                   Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 3 A; 5 C; 9 G; 3 T; 0 U; 0 Other;
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are 5-methylcytidines"
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Pred. No. 7
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RESULT 602
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Best Local Similarity
Matches 17; Conserv
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                       WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                             AAQ75730
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                                                                                                            01-NOV-1994
                                                                                                                                  JP06303997-A.
                                                                                                                                                                           aggregate;
                                                                                                                                                                                       Analysis;
                                                                                                                                                                                                           Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Analysis of cDNA and gene
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                                                                 16-APR-1993;
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                                                                                                                                                                                       gene expression; reverse transcription; primer; cDNA;
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 cDNA and
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                                           TELEGRAPH & TELEPHONE
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Pred. No. 7
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RESULT 603
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                    A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in seperate lanes. The method can be used to analyse gene expression rapidly and easily
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Analysis of cDNA and gene expression -
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0.3%;
ilarity 89.5%;
Conservative (
                                                                                                                 BP; 3 A; 0 C; 0 G; 18 T; 0 U;
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Pred. No. 7.
                                Score 15.8; DB 1; Pred. No. 7.8e+02;
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2;
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RESULT 604
AAQ75727/c
ID AAQ75727;
XX
AC AAQ75727;
XX
AC AAQ75727;
XX
DT 04-AUG-1995 (first entry)
DT 04-AUG-1995 (first entry)
DT 04-AUG-1995 (first entry)
DE Reverse transcription primer use
XX
Analysis; gene expression; revex
XW
Aggregate; restriction enzyme; s
XX
DE Reverse transcription enzyme; s
XX
Analysis; gene expression; revex
XX
PN JP06303997-A.
XX
PN JP0630397-A.
XX
PN JP06303997-A.
XX
PN JP
ADG77
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
                                                                                                                                              genetic disease; genetic trait; dog; carrier of recessive disease; copper toxicosis; CT; canine genome map; breed-specific profile; DNA fingerprint; dog identification; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A method for the analysis of cDNA comprises (a) preparing an aggregate of double-stranded cDNAs by using an aggregate of mRNAs and a plural type (labelled reverse transcription primers (GENESER) files AAO75547-075798) and using the aggregate of mRNAs as the template for each reverse transcription primer; (b) digesting each of the prepared aggregates of the double-stranded cDNAs with restriction enzyme and; (c) electrophoresing the digested aggregate of cDNAs in separate lanes. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Analysis of cDNA and gene expression - by amplification of mRNA followed by digestion with restriction enzymes.
                                                                                        Canis familiaris
                                                                                                                                                                                                                                                                          Canine disease marker-related PCR primer 484.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 2 A; 0 C; 1 G; 18 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 8; 11pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADG77640 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (NITE ) NIPPON TELEGRAPH & TELEPHONE CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5390 ATTAAAAAAATACAAAAAA 5408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20
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; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be used to analyse gene expression rapidly and easily
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.8;
Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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AAX32871/c
ID AAX328
XX
AC AAX328
AC AAX328
AC AAX328
DT 20-MAR
DT 20-MAR
DT 28-JUN
XX
Triple
KW Inhibi
XX
Synthe
OS Hepati
XX
W0992(
XX
PD 29-APF
XX
PF 19-OCT
XX
PA (SHAN-
XX
PA (SHAN-
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PI Lu C;
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                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local
                                                                                                                                                                                                                                                                                                 27-AUG-2003
20-MAR-2003
28-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention relates to novel oligonucleotide PCR primers which may be used to identify markers associated with genetic diseases and traits in dogs, in particular to diagnose genetic diseases that are not phenotypically visible and to identify carriers of recessive diseases. A specific application is diagnosis of copper toxicosis (CT). The invention can also be used to create a genetic map of the canine genome; to generate breed-specific profiles; to establish paternity and to identify dogs from DNA fingerprints. The method provides rapid analysis of the target sequences from only a small sample of DNA. Diagnosis can be done at any time in the dog's life. The present sequence is that of a PCR primer of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New oligonucleotide primers for diagnosis of genetic diseases and train dogs - amplify specific regions of the genome containing microsatellite repeats, especially for diagnosing copper toxicosis and
                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                           Triplex-forming oligonucleotide; TFO; promoter region; pre-S gene; inhibition; hepatitis B virus; HBV adr subtype; DR region; ss.
                                                                                                                                                                                                                                                                                                                                                             AAX32871;
                                                                                                                                                                                                                                                                                                                                                                                        AAX32871 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 15; 40pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              carriers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1997-435082/40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brewer GJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UNMI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-AUG-1997.
                                                                                               19-OCT-1998;
                                                                                                                             29-APR-1999.
                                                                                                                                                        WO9920641-A1.
                                                                                                                                                                                    Hepatitis B virus.
                                                                                                                                                                                                                                                                     TFO B13 sequence.
                                         (SHAN-) SHANGHAI INST BIOCHEMISTRY CHINESE ACAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2406
                                                                                                                                                                                                                                                                                                                                                                                                                                                              -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     l Similarity
17; Conserv
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UNIV MICHIGAN STATE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTTCTTTGCAGCAATGTCC 2424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTTCATAGCAGCAATGTCC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Venta PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                 (revised)
(revised)
(first en
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                                                                      97CN-00106667.
                                                                                                 98WO-CN000248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  97WO-US002396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                                                                                                                                                                                                                                                                    entry)
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                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                         BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.8; DB 1;
Pred. No. 7.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and traits
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S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 607
AAX57097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention provides triplex-forming oligonucleotides (TFO) and their condified derivatives. TFO B1-B5 (AAX32862-866) can bind with the promoter region of pre-S gene in inhibition of hepatritis B virus (HBV) add subtype cand TFO B11, B12 and B15 (AAX32868-870) can bind with DR region of HBV.

CC The oligonucleotides are useful for inhibition of HBV and as drug in treatment of hepatritis B. Since the length of the oligonucleotides can be suitably increased, the stability and specificity of the formed triplex CC DNA with 2 similar homopoly purine/homopoly pyrimidine fragments are conjugated to the stability and specifically targeting on the HBV gene conjugated triplex formation is specifically targeting on the HBV gene conjugated triplex with target sequence of RNA in stopping RNA reverse conjugated triplex in the specifically modified by 3'-terminal components are chemically modified by 3'-terminal components are chemically modified by 3'-terminal components are not toxic to the body. (Updated on 20-MAR-2003 to correct DR field.) (Updated on 27-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 17; Conserv
                           Claim 63; Page 145; 195pp; English.
                                                         Nucleic
                                                                                                                                                                                                                                 06-MAY-1999
                                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                                                                                                                                                                                                                                                                 rolandic epilepsy;
                                                                                                                                                                                                                                                                                                                                             KCNQ2; KCNQ3; human; murine; potassium channel; diagnosis;
benign familial neonatal epilepsy; BTNE; juvenile myotonic
rolandic epilepsy; mutant; treatment; screening; epilepsy;
                                                                                                                                                                                                                                                                                                                                                                                                         Human mutant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 5 A; 0 C; 16 G; 0 T; 0 U; 0 Other;
                                                                                    WPI; 1999-312938/26.
                                                                                                                                                                                                    23-OCT-1998;
                                                                                                                                                                                                                                                            WO9921875-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX57097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX57097 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 12; 39pp; Chinese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Triplex-forming oligonucleotides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-288270/27.
                                                                                                                                                                         24-OCT-1997;
                                                                                                                                                                                                                                                                                           Homo
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                                                                                                                                             (UTAH ) UNIV UTAH RES FOUND.
                                                                                                                                                                                                                                                                                        sapiens.
                                                                                                                NA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92 CTCCTCCCACCCACCTCT 110
                                                         acid
                                                                                                                Leppert MF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                      encoding potassium channels KCNQ2
                                                                                                                                                                                                                                                                                                                                                                                                         KCNQ2
                                                                                                                                                                         97US-0063147P
                                                                                                                                                                                                    98WO-US022375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HBV).
                                                                                                                                                                                                                                                                                                                                  screening;
                                                                                                                                                                                                                                                                                                                                                                                                      screening primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                Charlier
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 15.8;
Pred. No. 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                Ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   useful for,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e.g. inhibition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2
                                                       and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                       ω.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21;
                                                                                                                                                                                                                                                                                                                                              ; prognosis;
c epilepsy; JME;
; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     of.
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                                                                                                                                                                                                                                                                                                                                                                                   CC KCNQ2 and KCNQ3. Detecting mutations in sequences that encode KCNQ2 or CC KCNQ3, or the loss of one copy of these genes, is used for diagnosis and CC prognosis of benign familial neonatal epilepsy (BFNE), juvenile myotonic CC epilepsy (JME) or rolandic epilepsy (RE). Cells (or transgenic animals) CC that express wild-type or mutant KCNQ2 or 3 (also the proteins themselves CC in cell-free form) are used to screen for agents that can be used to CC treat or prevent these forms of epilepsy. Fragments of the encoding CC mutations or for isolation of related sequences, while the complete CC sequences may be used in gene therapy to provide wild-type protein. CC diagnostic reagents and for drug screening. The KCNQ2 and 3 proteins are used as cC diagnostic reagents and for drug screening. The KCNQ2 and 3 proteins are used in rational design of drugs and therapetically (in replacement CC therapies). The forms of epilepsy associated with mutations in KCNQ2 and CC sequences can now be diagnosed early (before symptoms are manifest), CC and better treatment options will be available. AAX57074-X57139 are CC primers used in the method of the invention
                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                 Sequence 21
AAX09047
                                           AAX09047 standard; DNA; 21 BP
                                                                                                                                                                                                         2831 TTGAGGGCAGCACAG 2849
                                                                                                                                                                                                                                                       17;
                                                                                                                                                             TTGACGCAGGCACCACAG 19
                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                 BP; 5 A; 8 C; 6 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                             Score 15.8;
Pred. No. 7.
                                                                                                                                                                                                                                                                             .8e+02
                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                       Gaps
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14-JUN-1999
necrosis factor alpha antisense oligonucleotide
                                        (first entry)
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Tumour necrosis factor alpha; TNF-alpha; antisense oligonucleotide; ASO; inhibition; expresssion; treatment; disease; disorder; ss. inhibition; expresssion; treatment; disease;

Rattus rattus.

WO9901139-A1

02-JUL-1998; 14-JAN-1999 98WO-US013711.

03-JUL-1997; (UYJE-) UNIV JEFFERSON THOMAS 97US-0051705P.

Israel ۲,

WPI; 1999-105767/09.

Generation of antisense oligonucleotides - GGGA motif found in mRNA sequences. by specifically targeting a

Example 1; Page 32; 55pp; English.

RESULT 608
AAXO9047
ID AAXO90
XX AAXO90
XX TUMOUI
XX TUMOUI
XX TUMOUI
XX FAITUM
OS RATTUM
OS RATTUM
PD 11-JAL
XX HO9901
XX HO9 Antisense oligonucleotides (ASO) for inhibiting a tumour necrosis factoralpha (TNF-alpha) gene in an animal, preferably a human, comprise 12-50 nucleotides, 90% of which are complementary to a region of mRNA. containing a GGGA sequence motif. The ASO is used to inhibit expression of a gene in an animal and for treating the animal when afflicted with a disease or disorder characterised by the presence of an mRNA from a gene containing a GGGA motif. The ASO as gene-cifically targeted to a GGGA sequence motif found in mRNA from a gene. A study of known ASO has shown that at least half of the most efficacious ASO's contain one or more TCCC

This invention describes novel human and mouse potassium channel proteins

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RESULT 609
AAP96446/C
ID AAP96446/C
AAP96446/C
XX AAP964
XX AAP964
XX Human,
XX Human,
XX POLymo
XX PT Variat
FT Y
FT Variat
FT VARI
XX VO2001
XX IO-SEI
XX IO-SEI
XX IO-SEI
XX IO-SEI
XX IO-SEI
XX VO2001
XX 
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Best Local S
Matches 17
                                               The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the diagnosis of atherosclerosis, myocardial infarction, coronary heart disease, stroke, peripheral vascular diseases, venous thrombosembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nucleic acids comprising single nucleotide polymorphisms, useful in applications such as forensics, paternity testing, medicine, genetic analysis and phenotype correlations to diseases such as diabetes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism; pulmonary embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lander ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (MILL-)
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26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
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                                                                                                                                                                                                                                                                                                                                                                                                          Example; Page 133; 242pp; English.
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Similarity 89.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gargill M,
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Pred. No. 7.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Daley GQ,
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TNF-alpha
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Sequence 21 BP; 4 A;

10 C; 4 G; 3 T; 0 U; 0 Other;

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                                                    Query Match
Best Local S
Matches 17
                                                                                                                                 The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a Th2 to a Th1 immune response and to activate immune cells. Note: the present sequence and shockbone
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                              Vaccinating against tumors, infectious diseases, allergies and using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-SEP-1999; 99US-0156113P
27-SEP-1999; 99US-0156135P
23-AUG-2000; 2000US-0227436P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothicate; 88.
                                                                                                           Sequence 21
                                                                                                                                                                                                                                                                                                                                                     Claim 101; Page 53; 338pp; English
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17; Conserv
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                        CTGCAGCTGCTGCAGC
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                                                      Conservative
                                                                                                            BP; 0 A; 7 C; 7 G; 7 T;
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99US-0156135P.
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Pred. No. 7.
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Pred. No. 7.8e+02
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                                                      Mismatches
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RESULT 611
AAF76158
ID AAF761
  The invention relates to a transgenic immunodeficient recipient mouse CC which is capable of supporting the growth of donor cells. In the mouse, CC both alleles of a gene activated in early lymphocyte development are CC disrupted, causing it to lack mature B and T cells. In particular, both CC alleles of the recombination activation gene-2 (RAG-2) gene are CC disrupted, which in turn prevents VDJ recombination. The mouse also CC comprises donor (e.g., human) specific transgenes encoding the cytokines CC interleukin-7 (II-7), stem cell factor (SCF) leukaemia inhibitory factor (LIF), granulocyte macrophage-colony stimulating factor (M-CSF), and II-6, which enable it CC to support the growth of transplanted donor cells. In another embodiment CC transgene has naturally linked DRAB and QAB alleles. The transgenic CC mouse may be used as a model for determining the allergenicity of non-human, macromolecules; to determine the effect compounds CC monosc may be used as a model for determining the allergenicity of non-human immune system; to generate fully human polyclonal or CC monoscional antibodies to specific antigens; to determine whether compoundes and other monoclonal antibodies will raise a response in a human immune system; to investigate the human cell mediated response to
               pathogens and other immunomodulatory compounds; and to determine the factors involved in regulating the development and function of human haematopoietic cells. The transgenic mouse supports the functional properties of human haematopoietic cells, unlike previous animal models which produce functionally impaired haematopoietic cells or are immunologically dysfunctional. In addition the transgenic mouse provides a unique model system which supports T cell development in a manner which more closely resembles normal ontogeny, as they possess CD4+ T cells in the periphery that exhibit MHC-restricted antigen- specific responses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lymphocyte deficient; human cytokine; interleukin; IL-7; IL-6 stem cell factor; leukaemia inhibitory factor; GM-CSF; M-CSF; granulocyte macrophage-colony stimulating factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New transgenic mice, useful as non-human mammalian models of human disease, comprise recombination activation gene mutations and dono
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    macrophage-colony stimulating factor; human MHC class II; DR3; major histocompatibility complex; allergenicity determination; human monoclonal antibody generation; haematopoietic cell development;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2; Page 34; 68pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human oncostatin M (OM) PCR primer,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Harding FA;
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primers
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RESULT 612
AAS22374/c
ID AAS223
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PR 13-MAI
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                       The invention relates to Detecting a collagen gene alteration associated with a pathological condition in a human subject by obtaining from the subject a sample nucleic acid containing a portion of at least 15 consecutive nucleotides of the segment of the COLIA1 gene extending in the 5' to 3' direction from 78 nucleotides of intron 27 located adjacent exon 28 through the 3' end of intron 51, where the portion contains an intronic nucleotide and a first and second site, determining the sequence of the portion and comparing the sequence of the portion with the corresponding consensus sequence of the COLIA1 gene where a difference between the sequence of the portion and the consensus sequence indicates the presence of the collagen alteration in the subject. The method is used for detecting abnormalities in a COLI or COL9 gene is useful for detecting abnormalities in a COL1 or COL9 gene is useful for a secciated with an altered collagen gene such as osteoporosis, multiple associated with an altered collagen gene such as osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and low bone density. Identification of an abnormality in a collagen gene is also useful for designing a therapeutic nucleotide or gene therapy agent which can be administered to the subject to correct or alleviate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detecting collagen gene alteration, useful for diagnosing osteoporosis, multiple epiphyseal dysplasia, osteogenesis imperfecta, shortness of stature and low bone density in humans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; collagen; COL1A1; COL1A2; COL9A1; COL9A2; COL9A3; ss; osteoporosis; multiple epiphyseal dysplasia; osteogenesis imperfe shortness of stature; low bone density; gene therapy; PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAS22374 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Westerhausen Larson A,
Ala-Kokko L, Annunen S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prockop DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (UYAL-) UNIV ALLEGHENY HEALTH (UYJE-) UNIV JEFFERSON THOMAS (UYOU-) UNIV OULU.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-DEC-1991;
13-MAR-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US6265157-B1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Spotila LD, Deltas CD, Sereda L;
Larson A, Pack M, Colige A, Early
Annunen S, Pihlajamaa T, Vuoristo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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94US-00212322.
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Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCI.
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Paassilta P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21,
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                                                                                                            The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal addesions, atherosclerosis, scleroderma and hamoretronic control of the second control of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
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                                             hypertrophic scars. acid of the invention
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RESULT 614
ABL38849
ID ABL388
XX Immunc
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XX WO200:
XX WO200:
XX WO200:
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Matches
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                                                                            The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oseophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, mon-Hodgkin's lymphoma, melanoma, oral cavity cancer, ovarian cancer, stomach cancer, prostate cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression o cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 156; 312pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 developing cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Weiner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-JUN-2000; 2000US-0213346P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-JUN-2001; 2001WO-US020154.
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                                                             exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (IOWA ) UNIV IOWA RES FOUND
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
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1. .21
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/mod_base= OTHER
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Pred. No. 7.8e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   e expression of or at risk of
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Query Match
Best Local Similarity
Thes 17; Conserv

0.3%; milarity 89.5%; Conservative

0

Mismatches

Indels

0

Gaps

0

Score 15.8; DB 1; Pred. No. 7.8e+02;

DB 1;

Length 21;

Sequence 21

BP; 0

A; 7 C; 7 G; 7 T; 0 U; 0 Other;

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ABK10202
ID ABK1
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AC ABK1
XX
AC ABK1
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DT 21-W
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DOUL
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AAL44216/c
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                                                                                                                                                              RESULT 616
                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                               The invention comprises a method for detecting single nucleotide polymorphisms (SNPs) in genes associated with human bronchial asthma. The method specifically refers to detecting polymorphisms in the gene encoding human I-kappa beta associated protein (IKAP). The invention also comprises primers and probes for use in the method of the invention. The method of the invention is useful for analysis of the etiology of bronchial asthma (especially infant bronchial asthma). The present DNA sequence represents a human I-kappa beta associated protein gene PCR
               Single stranded DNA isolation; DNA purification; CTG repeat; ds.
                                                                                                      ABK10202;
                                                                                                                                 ABK10202 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; PCR; ss; single nucleotide polymorphism; SNP; bronchial asthma; I-kappa beta associated protein; IKAP; primer; infant bronchial asthma
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                                         Double stranded DNA isolation (CTG) 7 repeat sequence.
                                                                         21-MAY-2002
                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 6 A; 4 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 12; Page 55; 60pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detection of specific single nucleotide polymorphisms in human I-kappa beta associated protein for analysis of etiology of bronchial asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2002-557950/59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nakamura Y, Tamari M;
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                                                                                                                                                                                                         AGCAAGGTCTTCTCAATTG 1
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                                                                       (first entry)
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                                                                                                                                                                                                                                                                               Score 15.8;
Pred. No. 7
                                                                                                                                                                                                                                                                  Mismatches
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XKXKXXX

26-AUG-2003

(first entry)

ACC42594;

ACC42594 standard; DNA; 21

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Human oncostatin M, OM, PCR primer OSM3R1.

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                                                                                                                                          CC molecule. The method is performed under conditions in which the first cc strand dissociates from the second and hybridises with the competitor cc oligonuclectide to form a heteroduplex. The method of the invention is cu useful for separating a strand from a double-stranded target nucleic cc acid. The method is rapid, efficient and specific for isolating a single cc strand from a double-stranded nucleic acid. Because the method provides cc easy and efficient recovery of the single stranded DNA, the method is cc advantageously used to purify a first strand from a double-stranded cc nucleic acid that is a polymerase chain reaction (PCR) amplification cr product from a pool of related or unrelated sequences in high yield for cs subsequent use. The method also permits capture and/or recovery of the samples or other samples containing large molecule contaminants. The cresents sequence represents a double stranded (CTG) DNA molecule used to isolate double stranded DNA molecules in an example of a similar method cc to that of the invention
                                                                    Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                        Sequence 21 BP; 0 A; 7 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to a novel method for isolating one strand of double-stranded target nucleic acid. The method comprises contacting double stranded target DNA molecule with a competitor oligonucleotide capable of hybridising to the first strand of the double stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 12; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Isolating one strand of double-stranded nucleic acid, by contacting double stranded nucleic acid having first and second strands with competitor oligo to form first strand-oligo complex and isolating the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chiesa C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-AUG-2000; 2000US-0222686P
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                    2641 CTGCAGCTGCTGCAGC 2659
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                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /rpt_1
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/note= "CTG type repeat"
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                                                                                    89.5%;
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                                                                                                       0.3%;
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                                                                    0; Mismatches
                                                                                      Score 15.8; DB 1; Length 21; Pred. No. 7.8e+02;
                                                                      Indels
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RESULT 618
ACH03118
ID ACH031
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ACH031
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ACH031
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ACH031
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IMM
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a new transgenic mouse, which comprises a disruption in both alleles of a gene such that lymphocyte maturation does not occur and exogenous cytokines. The cytokines are selected from: interleukin-3 (IL-3), interleukin-6 (II-6), interleukin-7 (IL-7), macrophage-colony stimulating factor (MCSP), granulocyte-colony stimulating factor (GCSP), leukaemia inhibitory factor (IIF) and oncostatin M (OM). The gene disruption is in a gene that modulated VDJ recombination e.g. a RAG gene. The gene is disrupted by insertion of a transgene comprising major histocompatibility complex (MHC) Class II DR3 and DQ2 genes. The transgenic mouse is useful as a model of human disease to assess efficacy of therapeutic or prophylactic transgenic mouse is also useful for supporting donor haematopoletic stem cells or facilitating production of donor-specific functional immunity. PCR primers ACC42571-ACC42639 were used to generate the transgenic mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; PCR; primer; transgenic mouse; lymphocyte maturation; IL-3; IL-7; cytokine; interleukin-3; interleukin-6; II-6; interleukin-7; M-CSP; SCP; macrophage-colony stimulating factor; stem cell factor; oncostatin M; OM; granulocyte-colony stimulating factor; GM-CSP; LIP; leukaemia inhibitory factor; ss.
                                                                                                                           Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic conteat dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New recipient mammal, preferably a mouse, useful as a model of human disease to assess efficacy of therapeutic or prophylactic treatments, for facilitating production of donor-specific functional immunity.
                                                                                                                                                                                                                                                                                                                                                                                                                   ACH03118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-AUG-2002; 2002WO-US024807
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      US2003050268-A1
                                                                 Synthetic
                                                                                                                                                                                                                                                                                        Immunostimulatory nucleic acid #753.
                                                                                                                                                                                                                                                                                                                                                      25-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACH03118 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2434 GAGGATGAGAAGGGGAGAG 2452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003-278650/27.
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llarity 89.5%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
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Pred. No. 7.8e
0; Mismatches
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colliss or Crohn's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Treating non-allergic inflammatory diseases, such as psoriasis, allergic contact dermatitis, latex dermatitis or inflammatory be disease by administering an immunostimulatory nucleic acid.
                                  WPI; 2003-657977/62.
                                                                            (BRAT/)
(PETE/)
(FOUR/)
                                                                                                                        03-FEB-2000; 2000US-0179991P
                                                                                                                                             02-FEB-2001; 2001US-00776479
                                                                                                                                                                     08-MAY-2003
                                                                                                                                                                                         US2003087848-A1
                                                                                                                                                                                                               Synthetic
                                                                                                                                                                                                                                    ds; allergy; asthma; poly-G nucleic acid; aerosol hypo-responsive subject; immunostimulatory.
                                                                                                                                                                                                                                                                                             04-DEC-2003
                                                                                                                                                                                                                                                                                                                    ADB37082;
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(BERG/) BERG D J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sequence represents an immunostimulatory nucleic acid
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17; Conserv
                                                                            PETERSEN D M.
FOURON Y.
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Pred. No. 7.8e+02;
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Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.

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ADG45359
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ADG453
AC BERRALP
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Best Local S
Matches 17
The present invention relates to methods of prognosis of a breast cancer patient. The method comprises determining the level of oestrogen-related receptor alpha (ERRalpha) expression in breast cancer cells, where a high level indicates a poor prognosis and a low level indicates a more favourable prognosis. Also disclosed is a method of categorising breast cancer patients based on ERRalpha status by determining the expression level of ERRalpha in the breast cancer cells of breast cancer patient, a method of identifying a human subject for further breast cancer examination by determining whether a mutation exists in the ERRalpha gene, a method of treating breast cancer by determining whether
                                                                                                                                                                                                                                                                                                                                                                                          Determination of prognosis of breast cancer patient comprises determining level of estrogen-related receptor alpha expression in breast cancer cells where high level indicates poor prognosis and low level indicates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Breast cancer prognosis; human; oestrogen-related receptor alpha; ERRalpha; breast cancer cell; ERE-dependent transcription; PCR; p
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mertz JE,
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(JOHN/)
(KRAU/)
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26-FEB-1998; 98US-00031250
20-JAN-2000; 2000US-00488730
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                                                                                                                                                                                                                                                                                                                  Example
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JOHNSTON S D.
KRAUS R J.
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              This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ERRalpha is an activator or repressor of ERE-dependent transcription in the breast cancer cells, and decreasing ERRalpha activity in the breast cancer cells if ERRalpha is an activator and increasing ERRalpha activity in the breast cancer cells if ERRalpha is a repressor, and a method of identifying an agent that modulates ERRalpha expression. The methods of the invention are useful determining prognosis of a breast cancer patient. The invention identifies more biomarkers and treatment targets for breast cancer. The biomarker identified can predict prognosis and help patients make treatment choices. The present sequence represents a PCR primer used in the examples of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Analysis of chemical modification
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-MAY-2004
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) LUEBKE K J.
) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ss; chemical modification; methylation; array; CpG island, suppressor; p16; human; H69; H1618.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        suppressor;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            probe used to immobilise CpG methylated DNA SeqID 272.
                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 272; 210pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 5 A; 5 C; 4 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ification of DNA involves obtaining sample of DNA DNA with chemical reagents that result in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and determining
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RESULT 622
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                            Query Match
Best Local Similarity
Matches 17; Conserv
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Best Local Similarity
                                                                                                                             This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA, The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GARN/) GARNER H R.
(MINN/) MINNA J D.
(LUEB/) LUEBKE K J.
(BALO/) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                             Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; ss; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human DNA probe used to immobilise CpG methylated DNA SeqID 164.
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                                                                                       Sequence 21 BP; 3 A; 12 C; 0 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                  Example 1; SEQ ID NO 164; 210pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-JUN-2002; 2002US-00184085
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 2436 GGATGAGAAGGGGAGAGGT 2454
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                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Luebke KJ,
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                         0; Mismatches
                                         Score 15.8; DB 1;
Pred. No. 7.8e+02;
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Pred. No. 7.8e+02;
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                                                          DB 1;
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RESULT 623
ADJI3036/c
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RESULT 624
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Best Local
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(MINN/) MINNA J D.
(LUEB/) LUEBKE K J.
(BALO/) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                        Sequence 21
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tumour suppressor; p16; human; H69; H1618.
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17; Conserv
                                                                                                                                                        GGATGAGAAGGGAGAGGT 2454
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                                                                                                                                                                                                                                                                                                                                           BP; 3
                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                           A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                        12 C; 0 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ΒP
                                                                                                                                                                                                                      0
                                                                                                                                                                                                                   Score 15.8; DB 1, Pred. No. 7.8e+02, 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ξ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Balog
                                                                                                                                                                                                                                                                             DB 1; Length 21;
                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                      0
                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                      0
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ADJ13072/c ID ADJ130 XX AC ADJ130

ADJ13072 standard; DNA; 21

BP

ADJ13072;

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ADJ13144/c
ID ADJ131
XX ADJ131
XC AD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                          probe; ss; chemical modification; methylation; array;
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; ss; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
      Homo sapiens
                                                                                                                                                   Human DNA probe used to immobilise CpG methylated DNA SeqID 271.
                                                                                                                                                                                                                20-MAY-2004
                                                                                                                                                                                                                                                                                                                                    ADJ13144 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ ID NO 199; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-JUN-2001; 2001US-0301370P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-JUN-2002; 2002US-00184085
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tumour suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human DNA probe used to immobilise CpG methylated DNA SeqID 199.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BALO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2436 GGATGAGAAGGGGAGAGGT 2454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention relates to a novel method for analysing chemically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GARNER H R.

MINNA J D.

LUEBKE K J.

BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGATGAGAGGCGGAGAGGT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; 12 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Luebke
                                                                                                                                                                                                                                                                                                                                    21
                                                                                                                                                                                                                                                                                                                                    BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.8; DB 1;
Pred. No. 7.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ë
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Balog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                           CpG island,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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RESULT 626
ADJ13073/c
ID ADJ130
XX ADJ130
XX DJ130
XX PT 20-MAY
XX PT UMMAN
XX PT UMMAN
XX PT UMMON
XX PT UMMON
XX PT UMON
XX PT 27-JUN
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                                                                                                                                                                                                                                                                                                                                                                                                                                 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 21
                                                                                                                                                                                                                          Human DNA
                                                                                                                                                                                                                                                                                           ADJ13073
                                                                                                                                                                                                                                                                                                                         ADJ13073 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis of chemical modification of DNA involves obtaining sample of
to be analyzed, treating DNA with chemical reagents that result in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Garner HR, Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US2003152950-A1
                                                                                                                                                                                                                                                           20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GARN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               27-JUN-2002; 2002US-00184085.
                  27-JUN-2001; 2001US-0301370P
                                                 27-JUN-2002; 2002US-00184085
                                                                                 14-AUG-2003
                                                                                                                US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; SEQ ID NO 271; 210pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-JUN-2001; 2001US-0301370P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BALO/)
                                                                                                                                                                                                                                                                                                                                                                                                                                    2436 GGATGAGAAGGGGAGAGGT 2454
                                                                                                                                                                                                                                                                                                                                                                                                       21
                                                                                                                                                                               ss; chemical modification; methylation; array; CpG island
suppressor; p16; human; H69; H1618.
                                                                                                                                                                              suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LUEBKE K J
BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GARNER H R.
MINNA J D.
                                                                                                                                                                                                                          probe used to immobilise CpG methylated DNA SeqID 200.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                              p16; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Luebke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   c; o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.8; DB 1;
Pred. No. 7.8e+02;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 5 T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Balog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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GARN/)

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RESULT 627
ADJ31733
ID ADJ317
XX ADJ316
XX ADJ316
XX ADJ316
XX ADJ316
XX HOMO E
XX US2003
XX US2003
XX US2003
XX I1-JUD
XX I1-JUD
XX I1-JUD
XX I1-JUD
XX I1-JUD
XX II-JUD
XX II-
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
New compounds, particularly antisense nucleic acid encoding an amyloid beta
                                                                                                                                                                                                                                                                                                                                                                                                                 US2003232435-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amyloid beta protein precursor; neurodegenerative disorder; Alzheimer's disease; apoptosis; diagnosis; therapy; human; PCR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human amyloid beta precursor DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADJ31733;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 21 BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (MINN/)
(LUEB/)
(BALO/)
                                                                                  WPI; 2004-061283/06
                                                                                                                                                                                                                                                 14-JUN-2002;
                                                                                                                                                                                                                                                                                                       14-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                             18-DEC-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADJ31733 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 1, SEQ ID NO 200, 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2436 GGATGAGAAGGGGAGAGGT 2454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2003-874843/81.
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MINNA J D.

LUEBKE K J.

BALOG R P.
                                                                                                                                                                                              ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGATGAGAGCGGGAGAGGT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Minna JD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                 2002US-00173208
                                                                                                                                                                                                                                                                                                       2002US-00173208
                                                                                                                                                                                              PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; 12 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Luebke KJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.8;
Pred. No. 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amplifying reverse PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Balog
oligonucleotides targeted protein precursor, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 21;
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RESULT 628
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                Jansen B,
Gonos ES;
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                                                                                                       New RNA molecule less than 49 bases and having a mediate degradation or block translation of mRNA transcriptional product of a target gene, useful disease or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                 21-AUG-2002; 2002US-0405193P
03-SEP-2002; 2002US-0408152P
20-MAY-2003; 2003US-0472387P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RNA interference; RNAi; short interfering RNA; siRNA; human; insulin-like growth factor binding protein-5; cytostatic; neuroprotective; nootropic; gene silencing; IGFBP-5; DNA-RNA hybrid; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 21 BP; 9 A; 7 C; 4 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                              WPI; 2004-226852/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-AUG-2003; 2003WO-CA001277.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNAi for human insulin-like growth factor binding protein-5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 13;
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                                                                                                                                                                                                                                                                                                                                                                                  (UYBR-) UNIV BRITISH COLUMBIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5170 CACAGGGTGAGCCCCAAAA 5188
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nilarity 89.5%;
Conservative
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Pred. No. 7.8e+02;
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that is the
for treating Alzheime:
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                                                                                                                                         Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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Claim 5;

SEQ

ID NO 27; 63pp;

English

present sequence is the sense strand of a short interfering RNA

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RESULT 629
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
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                                                                                                                                                                                                                   New nucleic acid encoding human OATP2 or cMOAT protein, useful diagnosing, treating or preventing diseases or disorders, e.g. inflammatory, cardiovascular, hyperproliferative, neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene therapy; human; OATP2; cMOAT; hepatic disease; metabolic disinflammatory disease; cardiovascular disease; hyperproliferative neurological disease; infectious disease; liver disease; high cholesterol; hypertension; congestive heart failure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TSUC/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-SEP-2002; 2002US-00252155
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   coronary heart disease; cancer; wound healing; ds; SNP; single nucleotide polymorphism.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human organic anion transport protein SNP region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                       Tsuchihashi
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                                                                                                                                                                                                infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                             (KIRC/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
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                                                                                                                                          SEQ
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2001US-0333700P
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                                                                                                                                          ID NO
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Pred.
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No. 7
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The invention relates to an isolated nucleic acid derived from a human gene encoding a protein, i.e. human OATP2 protein or human cMOAT prote where the nucleic acid comprises at least one polymorphic position The

encoded protein,

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Best Local Similarity
Matches 17; Conserv
                                              The invention relates to an isolated nucleic acid derived from a human gene encoding a protein, i.e. human OATP2 protein or human CMOAT protein where the nucleic acid comprises at least one polymorphic position The nucleic acid and the encoded protein, kits and composition are useful i diagnosing, treating or preventing diseases or disorders, e.g. hepatic, metabolic, inflammatory, cardiovascular, hyperproliferative, neurological, infectious diseases, liver disease, high cholesterol, hypertension, congestive heart failure or coronary heart disease and cancer and promotes wound healing. The present sequence represents the human organic anion transport protein SNP region.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene therapy; human; OATP2; cMOAT; hepatic disease; metabolic disinflammatory disease; cardiovascular disease; hyperproliferative neurological disease; infectious disease; liver disease; high cholesterol; hyperrension; congestive heart failure; coronary heart disease; cancer; wound healing; ds; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosing, treating or preventing diseases or disorders, metabolic, inflammatory, cardiovascular, hyperproliferati
                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid encoding human OATP2 or cMOAT protein, useful diagnosing, treating or preventing diseases or disorders, e.g. inflammatory, cardiovascular, hyperproliferative, neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tsuchihashi Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human organic
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                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                           inflammatory, cardio infectious diseases.
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27-NOV-2001; 2001US-0333700P.
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HUI L.
KIRCHGESSNER T.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Kirchgessner T;
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Best Local Similarity
Matches 17; Conserv
                     Achiral linker reagents have been developed for the incorporation of multiple amino groups into oligonucleotides. The present sequence represents a modified oligodeoxyribonucleotide. The achiral linker reagents can be used for incorporation of multiple primary amino groups or reporter groups into oligonucleotides. They are compatible with conventional DNA synthesis following the phosphoramidite methodology, an can be incorporated in good yields. They may also be used for preparation of oligonucleotides. They may also be used for use as primers in the polymerase chain reaction or in nucleic acid sequencing reactions, for production of affinity matrices for detection of nucleic acid sequences, for cloning recombinan matrices for detection of nucleic acid sequences, for cloning recombinan
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oligo:nucleotide(s).
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                                                                                                     This exon specific primer used in the PCR amplification of a short content associated sequence. The gene region corresponding to short exture has been identified as a region of approximately 500 kb in the CR ARI region of the X and Y chromosomes. Three genes in this region have been identified as candidates for the short stature gene. These genes CR were designated SHOX (also referred to as SHOX3) or HOX3), pET92 and CR SHOX (SHOX TIME homeobox gene on chromosome three). The SHOX gene has two separate splicing sites resulting in two variations SHOXa and SHOXb. The specification provides sequences of SHOX (short stature homeobox—CR containing) genes SHOX ET92, SHOXa, SHOXb, SHOT and exons of the SHOX genes as shown in AAV35610 to AAV35621 and protein sequences of the human growth protein transcription factor SHOXb, SHOX and SHOY as shown CR growth protein transcription factor SHOXA, SHOXb and SHOT as shown CR products in the genes can cause short stature, e.g. Turner's syndrome. The products can be used to develop agents for the treatment of short stature or other human growth disorders. The products can also be used for containing a mitogenic effect on cells, e.g. for the treatment of bone of the specific sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New human growth genes - used to develop products for the diagnosis and treatment of human growth defects such as short stature, e.g. Turner's
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16-JAN-1997;
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                                                                         such as osteoporosis calcium regulation
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97EP-00100583
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                                                                                                                                                                                                                                                          CC The invention relative Component genes. The TR gene promoter can be linked to a CC RNA (TR) component gene, especially a gene encoding a cytotoxin, for therapy of CC cancer, especially neoplasias. The telomerase is necessary for the CC unrestricted proliferative capacity of many human cancers. Mutation or CC dysregulation of the telomerase repression pathway may cause reactivation or upregulation of the telomerase expression in cancer. Substances, CC identified in the methods, can be used to block transcription from the TR CC gene promoter through interaction of the 5' regulatory sequences. These CC substances, e.g. antisense oligomucleotides, transcription factors, CC peptide nucleic acids and factors that disrupt signal transduction, are (especially poT62-codAupp) comprising the promoter and a viral thymidine CC (especially poT62-codAupp) comprising the promoter and a viral thymidine CC kinase gene can be used to convert a prodrug, e.g. gancyclovir, so that neoplasia can be controlled or treated. Direct down-regulation of telemerase RNA gene through manipulation of transcription factors may be effective anticancer therapy and the cloning of the hTR gene promoter allows the analysis of therapeutic molecules which modulate hTR promoter activity. Sequences AAZO7696-321 represent PCR primers used in cloning can be underselved to the promoter region and mutagenisis of human TR gene (hTR) promoter region
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                                                                                                  Query Match
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Matches 17; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to promoter regions from mouse and human telomerase RNA (TR) component genes. The TR gene promoter can be linked to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAZ07304 standard; DNA; 22 BP.
                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mouse and human telomerase RNA gene promoters, useful for tumor specific
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2179 CATTACCTTGCCCAGGCTC 2197
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                                                                                                  l Similarity 89.5%;
17; Conservative
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                                                                                                                                                                                                                               BP; 4 A; 4 C; 10 G; 4 T; 0 U; 0 Other;
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                                                                                                                                Score 15.8; DB 1; Length 22; Pred. No. 7.8e+02;
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                                                                                                                                                                                                                                                                                                                                                     With protein EF1 gamma. Post-translational phosphorylation and dephosphorylation modulates the effect of the FEZ1 protein. Inhibitors of FEZ1 gene expression are useful for inducing cells to proliferate. Compounds which modulate FEZ1 association with tubulin are useful for alleviating tubulin hyper- or hypo- polymerisation disorders, such as those associated with aberrant initiation of mitosis, modulation of the initiation and rate of cell proliferation and cell growth, modulation of cell shape, cell rigidity, cell motility, rate and stage of cellular DNA replication, intracellular distribution of organelles, metastatic potential of cell and cellular transformation from a non-cancerous to cancerous phenotype. Compounds which modulate FEZ1 binding and phosphorylation are also useful for alleviating a disorder, such as tumorigenesis, tumour survival, growth and metastasis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; FBZ1 gene; tumour suppressor gene; 8p22; cancer; tumour growth; tumour proliferation; tubulin; microtubule; protein BF1-gamma; tubulin polymerisation disorder; mitosis initiation; cell proliferation; cell growth; cell shape; cell rigidity; cell motility; DNA replication; tumorigenesis; tumour survival; metastasis; PCR primer; ss.
                                                                                                                                                                                                                                                                                           Sequence 22 BP; 2 A; 10 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primers AAA64531-32 were used to amplify a fragment of the human FEZ1 gene. FEZ1 is a tumour suppressor gene, located at chromosome location 8p22. Decreased or no expression of FEZ1 is detected in a variety of cancer cells. Expression of FEZ1 inhibits tumour growth and proliferation. FEZ1 also interacts with tubulin, with microtubules, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Croce CM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polynucleotide homologous with a portion of one strand of the human FEZ1 gene, useful for alleviating abnormal cell proliferation such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-JAN-2001
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                                                                     2640 CCTGCAGCTGCTGCAG 2658
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                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                89.5%;
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                                                                                                                                             0;
                                                                                                                                                                                Score 15.8; DB 1; Pred. No. 7.8e+02;
                                                                                                                                                 Mismatches
                                                                                                                                                                                                                      DB 1; Length 22
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RESULT 635 AAF83320/c

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RESULT 636
ABL45282
ID ABL452
XX ABL452
XX T1-APR
XX Humann
XX Hum
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to SAPL [SIT4-(sporulation-induced transcript4) associated proteins-like] polypeptide, selected from SAPLa polypeptide isoforms and SAPLa polypeptide isoforms. The SAPL polynucleotides are useful in gene therapy for treating and preventing insulin-dependent diabetes mellitus (IDDM). Fragments of the SAPL DNA are useful as primers and probes. The SAPL polypeptides are useful in screening for a substance e.g., a peptide or chemical compound, which interacts and/or binds with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Isoforms of novel gene arising from alternative splicing and encoding highly related proteins termed as SAPLa and SAPLb, from the IDDM4 locus on human chromosome 11q13, useful for treating IDDM and other diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SAPL; SIT4; SIT4 associated proteins like; human; antidiabetic; sporulation-induced transcript 4; SAPLa; SAPLb; gene therapy; IDDM; insulin-dependent diabetes mellitus; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 22 BP; 7 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 14; Page 98; 129pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-300338/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-APR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-JUL-2001
     JP2001321190-A
                                                       Homo sapiens.
                                                                                                                                           Human; chromosome 1р36-35; chromosome 21q22.1; genetic analysis; genome;
                                                                                                                                                                                                Human chromosome 1p36-35 PCR primer SEQ ID NO:2326.
                                                                                                                                                                                                                                                       11-APR-2002
                                                                                                                                                                                                                                                                                                               ABL45282;
                                                                                                                                                                                                                                                                                                                                                                   ABL45282 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hammond H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Todd JA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-OCT-2000; 2000WO-GB004027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAF83320 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (WELL ) WELLCOME TRUST LTD.
                                                                                                              primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2359 CACCCCATCCCTCTGAGCT 2377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACCACATCTCTCTGAGCT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Twells RCJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cDNA specific primer 4dest4 5f.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Metzker ML;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAF83318-350 represent PCR primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                89.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3 C; 8 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 15.8; DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŏ.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 22;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         specific for the SAPL
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Best Local !
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                 03-OCT-2000; 2000JP-00304143
                                                               03-OCT-2000; 2000JP-00304143.
                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                            Human; bladder cancer antigen KU-BL-1; immunotherapy; cytostatic; cancer;
                                                                                                                                                                                                                                          Human bladder cancer antigen KU-BL-1, PCR primer #10.
                                                                                                                                                                                                                                                                          27-AUG-2002
                                                                                                                                                                                                                                                                                                                                          ABK52714 standard; DNA; 22 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 22 BP; 5 A; 12 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 4; Page 50; 528pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Arraying genome clones
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                                                                                                                               JP2002112779-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (RIKA ) RIKAGAKU KENKYUSHO.
(GENO-) GENOTEX YG.
                                                                                                                                                                                             primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        343 CTACCACTCCCCCTCTATC 361
                                                                                                                                                                                                                                                                                                                                                                                                                          μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     l Similarity
17; Conserv
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                                                                                                                                                                                                                                                                            (first entry)
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Pred. No. 7.
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Gaps

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(KBIO-) GH KBIO GIJUKU.

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RESULT 638
ABV99963/c
ID ABV999
XX ABV999
XX 28-MAR
XX Human
XX G prote
KW hypote
KW manic
KW manic
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KW FR2823
XX FR282
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Best Local S
Matches 17
                    The present invention relates to a human G protein coupled receptor and its coding sequence. The coding sequence is useful for identifying specific modulators. In addition, the coding sequence, and related sequences, also host cells containing them, are useful for screening for agonists and antagonists of the G protein coupled receptor. The coding sequence is also useful for recombinant production of the G protein coupled receptor, and as source of amplification probes and primers for identifying pathological alleles or species homologs. Measuring the expression of the G protein coupled receptor and its coding sequence are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypotensive; neuroleptic; antidepressant; nootropic; anticonvulsant; antimigraine; human; diabetes; bulinia; ancrexia; Parkinson's disease; psychiatric disease; neurological disease; schizophrenia; manic depression; delirium; dementia; epilepsy; migraine; insomnia; circadian rhythm disorder; cognitive impairment; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cancer antigens, particularly human bladder cancer antigen KU-BL-1 and genes encoding for the antigens for their diagnosis and immune therapy
                                                                                                                                                                                                                                                                                                                                                                    diabetes.
                                                                                                                                                                                                                                                                                                                                                                                     New nucleic identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-APR-2001; 2001FR-00005477
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                                                                                                                                                                                                                                                                                                        Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABV99963;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (SERV-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAGAAGGGCAGCAAAAAG 4788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGAGAAGAGCAGCAAGAAG 22
                                                                                                                                                                                                                                                                                                           Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            receptor; antidiabetic; antianorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LAB
                                                                                                                                                                                                                                                                                                                                                                                        acid encoding G protein-coupled receptor, useful for specific modulators, potentially useful for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Coge F,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                        21; 45pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SERVIER SA.
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                                                                                                                                                                                                                                                                                                           French
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Pred. No. 7.8e
0; Mismatches
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monitoring of
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The invention relates to an isolated nucleic acid (N1) comprising at CC least 20 but not more than 1500 consecutive nucleotides of the optineurin CC promoter appearing as ADE13890. Also included are the optineurin promoter CC operably linked to a heterologous nucleic acid, a nucleic acid capable of CC detecting a single nucleotide polymorphism (SNP) in the optineurin CC promoter, a host cell comprising the promoter operably linked to a CC heterologous sequence, diagnosing or prognosing glaucoma in a sample CC obtained from a cell or bodily fluid (comprising detecting a polymorphism CC in a promoter region of the optineurin gene, associated with a glaucoma CC in a promoter region of the sequence variation in a sample containing DNA, detecting a SNP sequence variation in a sample containing DNA, determining the presence or increased conscrete resulting in loss of visual field in a patient (or the severity cor progression of glaucoma in a patient, comprising providing amplification reaction primers that direct amplification of a selected
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bulimia; anorexia; Parkinson's disease; and psychiatric/ new diseases (schizophrenia, manic depression, delirium, dementia, majoraine, insomnia, circadian rhythm disorders and cognitive in The present sequence is an oligonucleotide which was need in from the invention
                                                                                                                                                                                                                                                                                             New nucleic acid sequences of the optineurin gene are useful to detect polymorphisms particularly single nucleotide polymorphisms in the optineurin promoter to diagnose, prognose and treat glaucoma and related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SNP; glaucoma; progressive
glaucoma related disorder;
                                                                                                                                                                                                                                                      Claim 11;
                                                                                                                                                                                                                                                                                                                                                                                    Raymond V, Morissette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-MAR-2002; 2002US-00091281.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-MAR-2002; 2002US-00091281.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  optineurin; ds; ophthalmological; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                RAYMOND V.
MORISSETTE
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                                                                                                                                                                                                                                                      SEQ ID
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Pred. No. 7
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                      The invention relates to diagnosing a predisposition to fat deposition leanness in a subject comprising detecting the presence or absence of polymorphic variation associated with fat deposition at a polymorphic site in a PLAZGIB nucleotide sequence in a nucleic acid sample from a subject, where the presence of the polymorphic variation indicates a predisposition to fat deposition in the subject. The polymorphic variation is a guanine at position 7328 or thymine at position 9182 of the present sequence. The method is useful for diagnosing a predisposition to fat deposition or leanness in a subject, and consequently for diagnosing a predisposition to non-insulin dependent diabetes mellitus (NIDDM) in a subject and conditions such as hyperinsulinemia, hypertension, glucose intolerance, dyslipidemia, hypercospulability, or microalbuminuria, which can lead to early
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid region containing the variation within the optineurin promoter and amplifying the DNA) and detecting a polymorphism (comprising obtaining a sample containing human genomic DNA, providing a nucleic acid capable of detecting a SNP located within an optineurin promoter, and detecting the polymorphism). The invention is used to diagnose and prognose glaucoma and also to treat glaucoma related disorders. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Diagnosing a predisposition to fat deposition or leanness, useful for diagnosing a predisposition to e.g. diabetes or hypertension, comprises detecting the presence of a polymorphism in the PLA2GIB nucleic acid from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PLA2G1B; fat deposition; leanness; single nucleotide polymorphism; non-insulin dependent diabetes mellitus; NIDDM; hyperinsulinemia; hypertension; glucose intolerance; dyslipidemia; hypercoagulability; microalbuminuria; PCR; primer; ss.
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                                             This invention relates to a novel candidate therapeutic agent useful for CC fat reduction and disorders related to fat depositions. Specifically, it CC refers to polymorphic variations in the phospholipase A2 (PLA2G1B) DNA, Which is located on chromosome 12q24 and has been associated with central fat deposition. The present invention describes methods to detect the presence or absence of these single nucleotide polymorphisms of PLA2G1B, CC in particular G7328A and T9182G, and subsequently provide treatment that reduces fat deposition. This treatment may consist of an appetite suppressant, a lipase inhibitor, a phospholipase inhibitor, an exercise regimen, a distary regimen, psychological counselling, psychotherapy or a psychotherapeutic. Accordingly, PLA2G1B is a target for reducing fat deposition and it can be used to treat both obesity and non-insulin deposition and it can be used to treat both obesity and non-insulin deposition and it can be used to treat both obesity and non-insulin colliponucleotide sequence is a PCR primer used to amplify fat sand rat pla2G1B DNA, used in an exemplification of the invention.
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page 80; 116pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying a candidate therapeutic for fat reduction, useful treating diabetes, by introducing a test molecule to a system PLA2G1B protein or nucleic acid, and determining the presence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-071944/07.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fat sand rat; PCR; ss; fat reduction;
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No. 7.8e+02
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Query Match

Sequence

22

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glomerulonephritis; acute and chronic rejection reactions of transplanted organs; graft versus host disease and ischaemic/reperfusion injury during surgery; allergic contact dermatitis; (pre-)eclampsia; hypertension and its consequences (particularly left cardiac hypertrophy and vascular wall thickening); chronic kidney diseases; chronic obstructive lung disease; bacterial infections (especially Helicobacter pylori gastritis, tubercular pericadditis, Lyme borreliosis and its consequences); infection by hepatitis C and HIV and their consequences, particularly portal hypertension and fibrosis, also opportunistic infections, particularly Pneumocystis carinii pneumonia. Also, detecting the -786C/T polymorphism in the eNOS gene is useful for diagnosis. The present sequence represents a double-stranded oligonucleotide of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                           pectoris, cardiac infarct, coronary spasm, cardiac insufficiency, stroke and peripheral occlusive disease); chronic inflammatory and autoimmune diseases (rheumatoid arthritis, psoriatic arthritis, Crohn's disease); diabetes types I and II (and complications such as nephropathy); multiple sclerosis; sarcoidosis, collagenosis and vasculitis, including
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               collagenosis; vasculitis; glomerulonephritis; transplanted organ rejection; graft versus host disease; ischaemic/reperfusion injury; allergic contact dermatitis; eclampsia, hypertension; left cardiac hypertrophy; vascular wall thickening; chronic kidney disease; chronic obstructive lung disease; bacterial infection; hepatherical chronic obstructive lung disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligonucleotides are used for treatment and prevention of arteriosclerosis and its consequences (coronary heart disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New double-stranded oligonucleotides, useful for treating e.g. cardiovascular disease and arthritis, are decoys that lift inhibition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cattaruzza M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to double-stranded DNA oligonucleotides.
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Matches 17
                                                                                                                                                     oligonuclectides are used for treatment and prevention of arteriosclerosis and its consequences (coronary heart disease, angina pectoris, cardiac infarct, coronary spasm, cardiac insufficiency, stroke and peripheral occlusive disease; chronic inflammatory and autoimmune diseases (rheumatoid arthritis, psoriatic arthritis, Crohn's disease); diabetes types I and II (and complications such as nephropathy); multiple sclerosis; sarcoidosis, collagenosis and vasculitis, including glomerulonephritis; acute and chronic rejection reactions of transplanted organs; graft versus host disease and ischaemic/reperfusion injury during surgery; allergic contact dermatitis; (pre-)eclampsia, hypertension and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    chronic autoimmune disease; rheumatoid arthritis; psoriatic arthritis; Crohn's disease; diabetes; nephropathy; multiple sclerosis; sarcoidosis; collagenosis; vasculitis; glomerulonephritis; transplanted organ rejection; graft versus host disease; ischaemic/reperfusion injury; allergic contact dermatitis; preeclampsia; eclampsia; hypertension; left cardiac hypertrophy; vascular wall thickening; chronic kidney disease; bacterial infection; hepatitis C; HIV; enonic obstructive lung disease; bacterial infection; hepatitis C; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New double-stranded oligonucleotides, useful for treating cardiovascular disease and arthritis, are decoys that lift expression of endothelial nitric oxide synthase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 22
   its consequences (particularly left cardiac hypertrophy and vasc thickening); chronic kidney diseases; chronic obstructive lung dbacterial infections (especially Helicobacter pylori gastritis, tyme borreliosis and its consequences); infection by hepatitis C and HIV and their consequences, particu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ds; arteriosclerosis; coronary heart disease; angina pectoris; cardiac infarct; coronary spasm; cardiac insufficiency; stroke peripheral occlusive disease; chronic inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADO84990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cattaruzza M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DE10242319-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-SEP-2002; 2002DE-01042319.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-SEP-2002; 2002DE-01042319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGCCAGCCAGGGAAGAGCT 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 6 A; 6 C; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          German
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0; Mismatches
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Pred. No. 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     are decoys that lift inhibition
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA oligonucleotides.
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                                                                                                                              vascular wall
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                                                                                                    disease;
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RESULT 644
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Query Match
Best Local Similarity
Matches 26; Conserv
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Best Local (
                                                                                                                                                       The invention relates to a system for detecting gene expression, which comprises one or two isolated DNA molecules that detect expression of a gene, where the gene corresponds to any of 8143 ollgonucleotides (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful for leukocyte expression profiling. It is particularly useful for diagnosing a disease, monitoring (rate of) prognosis for a disease, predicting therapeutic outcome, determining prognosis for a patient, predicting disease complications in an individual or monitoring response to treatment in an individual. The diseases include cardiac allograft rejection, kidney allograft rejection, liver allograft rejection, atherosclerosis, congestive heart failure, systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis or cytomegalovirus infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human leukocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wohlgemuth J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-OCT-2000; 2000US-0241994P.
08-JUN-2001; 2001US-0296764P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               congestive heart failure,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Page 583; Opp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               for leukocyte expression profiling, diagnosing a disease, or (the rate of) progression of a disease, e.g. atherosclerosis ive heart failure, comprises diagnostic oligonucleotides.
  Conservative
                                                                                                            BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gene expression profiling; allograft rejection; s; congestive heart failure; systemic lupus eryt
                                                                                                               12
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                                                                                                            A, 9 C, 18 G,
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Quertermous T,
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  Score 15.8; DB 1;
Pred. No. 7.9e+02;
0; Mismatches 17
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Pred. No. 7.
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                                                                                                            11 T, 0
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                                                                                                                Matches
                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                          rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a 50 mer oligonucleotide marker for diagnosis and monitoring of allograft rejection and other disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                          Sequence 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wohlgemuth J,
Rosenberg S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2003; 2003WO-US012946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2004042346-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transplant rejection; immune system; rheumatoid arthritis; inflammatory bowel disease; multiple sclerosis; HIV; AIDS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         50-mer oligonucleotide marker probe of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADP10317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADP10317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (EXPR-) EXPRESSION DIAGNOSTICS INC.
                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4022 CTCACTTTGTGGCTCTCCAAGGGGGCCATGTGGACACATCCCT 4064
                                                      4022 CTCACTTTGTGGCTCTCCAAGGGGGCCATGTGGACACATCCCT 4064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2004-400724/37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       50
                                                                                                             26;
                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 326; 1762pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCACCCTGTGACACAGCCAGAGGCAAATGGTTCCATGTCCCT
                                                                                                                                                                                                                                BP; 12 A; 9 C; 18 G; 11 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           invention relates to diagnosing or monitoring transplant
                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fry K,
                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Woodward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         50
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                                                                                                                                           Score
Pred.
                                                                                                                Mismatches
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                                                                                                                                     15.8; DB 1;
No. 7.9e+02;
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                                                                                                                                                                      DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Prentice
                                                                                                                                                                   Length 50,
                                                                                                                   Indels
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                                                                                                                Gaps
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RESULT 646
AAT27910/c
ID AAT27910 standard; DNA; 20

BP.

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RESULT 647
AAQ37956/c
ID AAQ37956 standard; DNA; 22 BI
XX
AC AAQ37956;
XX
DT 25-MAR-2003 (revised)
DT 11-JUL-1993 (first entry)
XX
DE Sequence of transcription factor: YV1; mc
XX
Transcription factor: YV1; mc
XX
OS Homo sapiens.
                                                                                                                                                                                                                                                                                                      문
                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods. to detect differences. The primers used in the amplification comprise a primer consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor directed primer, comprising a sequence of a SSR primer, which is flanked at its 5'-end by degenerate nucleotides. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite region; genetic trait marking; germplasm comparisons; 5'-anchored; ss.
                                     Epstein-Barr virus; oncogene;
                                                    Transcription factor: YY1; modulatory
                                                                                     Sequence of transcription factor position (P5+1) mt2.
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20 BP; 0 A; 8 C; 0 G; 9 T; 0 U; 3 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Modified amplified fragment length polymorphism assay - for detection polymorphism esp. in micro:satellite regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-277795/28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Morgante M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9617082-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5'-anchored simple sequence repeat primer DVD(TC)8.5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Page 76; 173pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-JAN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAT27910;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (DUPO ) DU PONT DE NEMOURS & CO E I.
                                                                                                                                                                                                                                                                                                                                   1182 AGAAAGAGAGAGAGAA 1199
                                                                                                                                                                                                                                                                                                      20
                                                                                                                                                                                                                                                                                                     AGAGAGAGAGAGAGAH 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     comparisons
                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vogel JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94US-00346456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  95WO-US015150
                                                                                                                                                                                                                                                                                                                                                                                   88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                                                                                                    1;
                                                                                                                                                                                                                                                                                                                                                                                   Score 15.6; DB 1, Pred. No. 8.2e+02
                                       88
                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                      (TF)
                                                                                                  YY1 mutant binding sequence at
                                                    adeno-associated virus
                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                    0
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                                                                                                      P5+1
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The cDNA of transcription factor (TF) YY1 (AAQ37948) was derived from CHeLa cells derived from cervical carcinoma from clone pl4-1 or pYY1 of the D98/AH-2 library. TF YY1 has a mol. wt. of 68 kD and is capable of binding to a sequence between -50 and -70 (F5-60 site) and to the transcription initiation region of the promoter (F95-1 site) of an adeno-associated virus (AAY). It represses transcription directed by a TATA celement plus initiator (Inr) sequence. It can mediate transcription through an Inr sequence or element. The initation site is of a lymphocyte specific terminal deoxymucleotidyltransferase gene (Tdtinr) or human leucoyte IFN gene (LeF-J Inr). YY1 can effect latency of viruses. It is a zinc finger protein and has a glycine rich sequence, as well as various mutant version of the two sequences (see AAQ37950-52, AAQ37954-56) were placed directly upstream of the TATA box in construct pTI to the the functions of these binding sites within transfected cells.
                                                                                                                                                                                                                                                                                                                                                                                                                          Purified and isolated mammalian transcription factor YY1 - used to modulate transcription in adeno-associated virus type 2- Epstein-Barr viruses and oncogenes; useful in diagnosis and screening.
Sequence 22 BP; 4 A; 4 C; 10 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Shi Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 1993-093929/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-AUG-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-MAR-1993.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W09304076-A1.
                                                                                                                                                                                                                                                                                                                                                                                        Example;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14-AUG-1992;
                                          (Updated on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seto E, Shenk T;
                                                                                                                                                                                                                                                                                                                                                                                      Fig 5; 100pp; English.
                                            25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    91US-00746485.
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RESULT 648
AAQ65892
ID AAQ658
XX AAQ658
AC AAQ658
DT 225-MAF
DT 22-DEC
XX Type 1
XX Polyme
XX Polyme
XX Synth
XX Synth 吊 S Query Match
Best Local Similarity
Matches 18; Conserv AAQ65892 standard; DNA; 22 13-NOV-1992; Synthetic Type II procollagen; COL2A1; amplification; primer; polymerase chain reaction; PCR; osteoarthritis; cartilage; 25-MAR-2003 22-DEC-1994 AAQ65892; 12-NOV-1993; 26-MAY-1994 3026 CTCGCTGCCTCCTGGAGACCCT 3047 II procollagen PCR primer 83. 22 CCCGCTTCCAACTGGAGACCCT 1 Conservative (revised) (first entry) 92US-00977284 93WO-US010964. 0.3%; ВP 0; Mismatches Score 15.6; Pred. No. 8. DB 1; Length .3e+02; Indels 22; 0 Gaps

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(UYJE-) UNIV

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Ala-Kokko L, JEFFERSON THOMAS

Williams

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Ritvaniemi P,

Baldwin

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RESULT 649
AAV02438
ID AAV0244
XX AAV024
XX O6-APR
XX Human
XX G prot
KW pituit
KW therap
XX Homo s
XX Hom
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              G protein-coupled receptor; ligand binding; pharmaceutical; modulator; pituitary; central nervous system; pancreas; prophylactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 18 claims primers for use in detecting mutations in a mammalian gene for a structural protein of cartilage comprising a sequence identified in Table I (Page 18-31). Table I includes 179 primer sequences (see AAQ65728-Q65906). The following details are given for primer 83: Alt. code: DH-75 Region/exon: 49 Direction: sense Primer position: 20047 (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV02438 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 22 BP; 8 A; 2 C; 7 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting genetic pre-disposition to osteoarthritis - and other diseases involving mutation in cartilage protein genes, by amplification and analysis of DNA and comparison with standards.
                                                                                                                     Ligand peptide for G function in the centr
                                                                                                                                                                                                                                                                                                                                                                                      15-MAR-1996;
12-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                        28-DEC-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-DEC-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W09724436-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV02438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                        Example 31; Page 133; 258pp;
                                                                                                                                                                                                WPI; 1997-363672/33
                                                                                                                                                                                                                                                                                                                   (TAKE ) TAKEDA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iomo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2755 GTAGAAACAGACATGGAGCTCT 2776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18;
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                                                                                                                                                                                                                                                                      Habata Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ligand
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                95JP-00343371.
96JP-00059419.
96JP-00211805.
96JP-00246573.
                                                                                                                                                                                                                                                                                                                     CHEM IND LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96WO-JP003821.
                                                                                                                     for G protein-coupled central nervous syste
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81.8%;
                                                                                                                                                                                                                                                                      Kawamata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       primer;
                                                                                                                       nervous system,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽₽
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.6; Ub 1,
                                                                        English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer
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                                                                                                                                                                                                                                                                   Новоуа
                                                                                                                                              receptor - acts
                                                                                                                       pancreas
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                                                                                                                                                                                                                                                                   Fujii R,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                     by modulating pituitary gland.
                                                                                                                                                                                                                                                                   Fukusumi
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this ligand may be used as a pituitary function modulator, a central nervous system modulator or a pancreatic function modulator. This ligand could have specific applications as a prophylactic or therapeutic agent for dementia, depression, hyperkinetic syndrome, disturbance of consciousness, anxiety syndrome, schizophrenia, trauma, growth hormone secretory disease, hyper- and polyphagia, hypercholesterolaemia, diabetes, hyperglyceridaemia, hyperlipidaemia, hyperprolactinaemia, diabetes, cancer, pancreatitis, renal disease, Turner's syndrome, neurosis, asthma, rheumatoid arthritis, spinal injury, transient brain ischaemia, epilepsy, amylotrophic lateral sclerosis, acute myocardial infarction, infertility, spinocerebellar degeneration, bone fracture, trauma, atopic dermatitis, spinal injury, transient brain schaemia epilepsy, osteoporosis and/or oligogalactia. Assays can also be developed to screen compounds which are capable of altering the binding activity of the ligand thus affecting activation of the G protein-coupled receptor
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein-coupled receptor protein.
      22 BP; 1 A; 6 C; 7 G; 8 T; 0 U; 0 Other;
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Matches 18
                3260 ACCTGGCCTCTGTGCTTAGTGC 3281
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                                         Similarity
                                  Conservative
                                         0.3%;
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Pred. No. 8.
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22
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RESULT 650
AXX57086/c
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XX Human
XX KCNQ2;
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KCNQ2; KCNQ3; human; murine; potassium channel; diagnosis; benign familial neonatal epilepsy; BFNE; juvenile myotonic rolandic epilepsy; mutant; treatment; screening; epilepsy; gene therapy; drug screening; primer; ss. prognosis; epilepsy; JME;

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06-MAY-1999
                      WO9921875-A1
                                                     Synthetic.
                                         sapiens
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(UTAH) UNIV UTAH RES FOUND

24-OCT-1997; 23-OCT-1998;

97US-0063147P 98WO-US022375

1999-312938/26 Ņ, Leppert MF, Charlier C;

Nucleic acid encoding potassium chamnels KCNQ2

Claim Page 144; 195pp; English.

This invention describes novel human and mouse potassium channel proteins KCNQ2 and KCNQ3. Detecting mutations in sequences that encode KCNQ2 or KCNQ3, or the loss of one copy of these genes, is used for diagnosis and prognosis of benign familial neonatal epilepsy (BFNR), juvenile myotonic epilepsy (JME) or rolandic epilepsy (RE). Cells (or transgenic animals) that express wild-type or mutant KCNQ2 or 3 (also the proteins themselves in cell-free form) are used to screen for agents that can be used to treat or prevent these forms of epilepsy. Fragments of the encoding nucleic acids are used as probes or primers, either for detecting

PCR primers type ligand

AAV02438-V02440 cDNA used in an

are used to amplify a novel bloactive human assay to monitor ligand binding to the G

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The invention relates to a murine pituitary-derived ligand polypeptide which is a ligand for the G-protein coupled orphan receptor designated GPR10 (human) or UHR-1 (rat). Cells transformed with a vector containing the ligand polypeptide encoding DNA are used to produce a recombinant ligand polypeptide. The ligand polypeptide, and its fragments, modulate function of the pituitary, central nervous system, pancreas and other tissues and can be used to screen for agents that modulate binding of the polypeptide to the receptor; to quantify the amount of receptor in a sample and to raise antibodies. They may also be used therapeutically, e.g. to treat senile dementia, Alaheimer's, Parkinson's or Huntington's diseases; Creutzfeld-Jakob disease; poisoning by heavy metals or drugs;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mutations or for isolation of related sequences, while the complete sequences may be used in gene therapy to provide wild-type protein. Antibodies specific for mutant or wild-type proteins are used as diagnostic reagents and for drug screening. The KCNQ2 and 3 proteins are useful in rational design of drugs and therapeutically (in replacement therapies). The forms of epilepsy associated with mutations in KCNQ2 and 3 sequences can now be diagnosed early (before symptoms are manifest), and better treatment options will be available. AAXS7074-X57139 are primers used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GPR10; UHR-1; modulator; pituitary; central nervous system; pancreas; tissue; screen; therapeutic; binding; senile dementia; ligand; murine; Alzheimer's disease; Parkinson's disease; Huntington's disease; drug; Creutzfeld-Jakob disease; poisoning; schizophrenia; growth hormone; secretion; diabetes; cancer; rheumatoid arthritis; epilepsy; vasopressor; gene therapy; transgenic animal; murine; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptide ligand for orphan G protein coupled receptors - used for treating disorders of central nervous system, pituitary and pancreas, an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-009423/01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hinuma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pituitary-derived ligand polypeptide; G-protein coupled orphan receptor; GPR10; UHR-1; modulator; pituitary; central nervous system; pancreas;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV81254 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        G protein-coupled receptor; GPCR; hypoovarianism; gonecyst cacogenesis; menopausal syndrome; euthyroid; hypometabolism; lactation; modulation; pituitary adenomatosis; brain tumour; emmeniopathy; autoimmune disease; prolactinoma; infertility; impotence; amenorrhea; galactorrhea; acromegaly; Chiari-Frommel syndrome; Argonz-del Castilo syndrome; Forbes-Albright syndrome; lymphoma; Sheehan syndrome; dyszoospermia; contraceptive; placental function; choriocarcinoma; hydatid mole; abortion; unthrifty fetus; abnormal saccharometabolism; abnormal lipidmetabolism; oxytocia; prolactin secretion; PCR primer; ss
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Pred. No. 8
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Use of G protein-coupled receptor ligands - for modulating prosecretion or placental function, e.g. for treating menopausal tumours, autoimmune disease or abnormal pregnancy.

for modulating prolactin

syndrome,

Example

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Page 103; 241pp; English.

PCR primers AAX15531-33 were used to amplify cDNA encoding a rat tyll ligand polypeptide. The specification describes an agent for modulat prolactin secretion which comprises a ligand polypeptide or a salt, g protein-coupled receptor (GPCR) protein. The agents for promoting prolactin secretion can be used for treating or preventing hypoovarianism, gonecyst cacogenesis, menopausal syndrome, euthyroic hypometabolism. They can by used for promoting lactation in a domest

ing a rat type : for modulating e or a salt, for

euthyroid

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RESULT 653
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ID AAX368
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Matches 18
This sequence is a primer for the human XLIS gene of the invention. The XLIS fragments may be used to detect abnormalities in the expression of the XLIS gene transcripts or to compare their sequence with that of the XLIS transcripts from patients for in vitro especially prenatal diagnosis of lissencephaly (LIS) (or agyria-pachygyria), subcortical laminar neurodegenerative diseases such as Alzheimer's disease. These disorders mainly affect females as the XLIS gene is X-linked. The XLIS fragments may also be used to administer to patients to prevent or treat the above disorders and may be used as a tool in genetic counselling.

Oligonuclectides which bind to the fragments may be used to amplify the XLIS gene from a sample for comparison to normal samples in the in vitro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mammal and as an aphrodisiac. The agents for inhibiting prolactin secretion can be used for treating or preventing pituitary adenomatosis, brain tumour, emmeniopathy, autoimmune disease, prolactinoma, infertility, impotence, amenorthea, galactorrhea, arromegaly, Chiari-Frommel syndrome, Argonz-del Castilo syndrome, Forbes-Albright syndrome, lymphoma, Sheehan syndrome or dyszoospermia. The inhibitory agents can also be used as contraceptives. The agents for modulating placental function can be used for treating or preventing choricocarcinoma, hydatid mole, irruption mole, abortion, unthrifty fetus, abnormal saccharometabolism, abnormal lipidmetabolism or oxytocia
                                                                                                                                                                                                                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                               New gene and its gene product expressed in the brain, useful for diagnosing and treating disorders such as lissencephaly and subcortical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             XXIS gene; human; detection; diagnosis; prenatal diagnosis; therapy; liseencephaly; LIS; agyria-packfygyria; subcortical laminar heterotopia; SCLH; cortical dysgenesis; cryptogenic epilepsy; neurological disease; SCH; cortical dysgenesis; cryptogenic epilepsy; neurological disease; neurological disease; X-linked disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAX36878 standard;
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Pred. No. 8
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                                                                                       PCR primers AAZ36052-Z36053 are used to amplify the mouse MLC2a gene. The primers and the PCR product are used in the method of the invention which relates to a novel quantitative reverse transcriptase polymerase chain reaction (RT-PCR) assay for quantitative gene expression. The method is used for determining a quantitative measure of the expression of a gene of interest in a biological sample by determining a normalised RNA prevalent for the gene of interest. The invention also relates to a method for determining the effect of a treatment on a quantitative measure of the expression of a gene of interest, or of a panel of gene of interest, in a sample by determining a normalised RNA equivalent for the gene of interest in a first untreated sample and a second treated sample. The methods are used for quantitative gene expression, where determination of changes in gene expression provides a measure of the biological response to a treatment or drug. The method have uses in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diagnosis regime. This may also be performed by amplifying XLIS cDNA free the mRNA in the sample. Antibodies to XLIS may be used to detect XLIS in a biological sample or can be administered to patients to prevent or treat the above disorders. They may also be used to putients to prevent or a biological sample. XLIS may also be administered to patients to prevent or treat the above neurological disorders. In addition XLIS may be used as a marker of neuronal cells at an early stage of development; its discovery increases understanding of both the neuronal movement which leads to development of the cortical region of the brain and of the pathogenesis of the group of neuronal disorders mentioned above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Quantitative analysis of gene expression using
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-JAN-2000
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                                                                and diagnostic applications
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Pred. No. 8.
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RESULT 656
AAF60520
ID AAF605
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                                                                                                                                                              RESULT 655
AAC70378
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                                                                                                            Query Match
Best Local S
Matches 18
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Best Local Similarity
                                                                                                                                                                                            The present invention is concerned with a number of human single nucleotide polymorphisms (SNPs) which the inventors identified in human genes. These SNPs can be used in disease diagnosis and prediction of an individual's susceptibility to disease, in forensic and paternity testing and in genetic mapping. In particular, the SNPs of the invention can be used to diagnose susceptibility to diseases of the cardiovascular, endocrine and neurological systems, such as coronary artery disease, schizophrenia, cancer, autoimmune diseases, Alzheimer's and Parkinson's
                                                                                                                                                                                                                                                                                                                                          Nucleic acid selected from one of 106 genes comprising single nucleotide polymorphisms, allele-specific oligonucleotides to the genes are useful for phenotypic correlations, forensics, paternity testing, medicine and
  AAF60520 standard;
                                                                                                                                                           Sequence 22 BP; 8 A; 3 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                        Claim 8; Fig 5; 214pp; English.
                                                                                                                                                                                                                                                                                                                                 genetic analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                     Altshuler D,
Lipshutz RJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neurological system; forensic testing; paternity testing; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Single nucleotide polymorphism; SNP; human; genetic disease; disease susceptibility; cardiovascular system; endocrine system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Single nucleotide polymorphism
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-MAR-1999;
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                                                                                                              18;
                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WHITEHEAD INST BIOMEDICAL
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                                                                                    TGTGGACCAGTATCGAGAGCAG 4554
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                                                              TTTGGACCAGTATAGACAGAAG 22
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nilarity 81.8%;
Conservative
                                                                                                              Conservative
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Patil N, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first
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  DNA;
                                                                                                                        0.3%;
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klar P;
 ВP
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Pred.
                                                                                                                        Score 15.6;
Pred. No. 8
                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RES.
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No. 8.
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3e+02;
                                                                                                                        .3e+02
                                                                                                                                      DB 1;
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                                                                                                                                     Length
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RESULT 657
AAH45105
ID AAH451
XX
AAH451
XX
AAH451
XX
C-SEP
XX
DT 06-SEP
DT 06-SEP
DT 06-SEP
DT 06-SEP
DT 06-SEP
DT 06-SEP
XX
DE Beta-a
XX
DE Beta-a
XX
DE Bown's
XW Diseas
XW Diseas
XW Diseas
XW Diseas
XW Diseas
XW Diseas
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to a transgenic organism comprising a Plderived artificial chromosome (PAC) vector, which in turn comprises a pituitary ademylate cyclase-activating polypeptide (PACAP) receptor (PACR) gene. The present sequence is a PCR primer for human PACAP type 1 receptor (PAC IR). PACAP is a neuropeptide which is widely expressed in the brain, and in various peripheral organs. PAC IR is selective for PACAP and is expressed at high levels in the brain. PAC_IR is useful for preparing a medicament in the treatment and/or modulation of disturbances in stroke and other cerebrovascular diseases, cardiovascular diseases, leishmaniasis, immunosuppressive disorders, nociception (reaction to pain
Down's syndrome; cancer; neurodegenerative disease; Parkinson's amyotrophic lateral sclerosis; Huntington's disease; spinocerebellar ataxia-3; multiple sclerosis; diabetes mellitus
                                                                                                                                                                                                                                                                                                                                                                                     Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Shen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; PAC_1 receptor; transgenic organism; PACAP; brain; stroke; memory; pituitary adenylate cyclase-activating polypeptide receptor; nociception; PACAP type 1 receptor; PAC_1R; neuropeptide; cerebrovascular disease; cardiovascular disease; leīshmaniasis; immunosuppressive disorder;
                                                Disease detection; age-related disease; Alzheimer's disease;
                                                                              Beta-amyloid precursor protein,
                                                                                                                                                                               AAH45105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 41; 83pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-APR-2001
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                                                                                                               06-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                        sensation) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New transgenic organism, useful for studying regulation of human Plderived artificial chromosome (PAC) 1R gene expression, comprises a Plyector or pituitary adenylate cyclase-activating polypeptide receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        learning function; PCR primer; ss.
                                                                                                                                                                                                                                                                                           4749
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                                                                                                                                                                               standard;
                                                                                                                                                                                                                                                                              TCACCTCATTATGGAACTCTGG 4770
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                                                                                                                                                                                                                                                            TCACCTGCTTGTTGAACTCTGG
                                                                                                                                                                                                                                                                                                                                                                                         BP; 3 A; 6 C; 5 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                               (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer #6
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                                                                                                                                                                                                                                                                                                                                                                                                                       learning and memory functions
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                                                                                                                                                                               DNA;
                                                                                                                                                                                                                                                                                                                                        0.3%;
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                                                                                                                                                                                                                                                                                                                                          Score 15.6;
Pred. No. 8.
                                                                                APP,
                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                             22
                                                                              coding sequence
                                                                                                                                                                                                                                                                                                                                          8.3e+02
                                                                                                                                                                                                                                                                                                                                                            DB
                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                             Indels
                                                                                 ທຸ
                                                                                 PCR
                                                                                                                                                                                                                                                                                                                                                            22;
                                                                                 primer.
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                                                                                                                                                                                                                                                                                                                         Gaps
                                   disease;
     II,
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RESULT 658
AAF98936/c
ID AAF989
XX
AC AAF989
XX
TI 12-JUN
XX
I mmuno
XX
Vaccin
KW Vaccin
KW Ummuno
XX
Vaccin
KW fungal
XX
infect
XX
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC protein. The method comprises providing a sample of a body fluid and/or its detectable part or the ratio between the two in the body fluid and/or its detectable part or the ratio between the two in the body fluid and/or tissue. The method enables diagnosing the disease before the captient exhibits clinical symptoms. The method is useful for diagnosing cc age-related diseases, preferably Alzheimer's disease, bown's syndrome or other age related diseases e.g. cancer; neurodegenerative diseases, such as frontal lobe dementia, progressive supranuclear palsy; and other cc diseases with abundant tau-positive filamentous lesions, Parkinson's cc diseases, amystrophic lateral sclerosis, Huntington's disease, and other cc degenerative diseases and relations as cardiovascular diseases and rheumatoid cc arthritis. A number of other diseases which can be diagnosed are given in the specification. In the present invention, PCR primers ANH45103 and CC ANH45104 were used to determine mutations in beta-amyloid precursor cc protein (APP) transcripts. The present PCR primer was used as a control cover.
                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to a method for detecting a disease or pathological condition associated with molecular misreading of coding sequences in the genome and/or associated with the clearance of aberrant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting a disease or pathological condition, associated with secretion of aberrant protein e.g. age-related diseases, by determining level of aberrant protein and/or its detectable part in body fluid and/or tissue.
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                                    Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
                                                                                                                                                                                       AAF98936;
                                                                                                                                                                                                                           AAF98936 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 25; 36pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 degenerative disease; cardiovascular disease; rheumatoid arthritis;
beta-amyloid precursor protein; APP; PCR primer; ss.
                                                                                                             Immunostimulatory nucleic acid #52.
                                                                                                                                                  12-JUN-2001
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                                                                                                                                                                                                                                                                                                                                                       4062 CCTGTTCCAAATGGCCCACTTT 4083
                                                                                                                                                                                                                                                                                                                                                                                              18;
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                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                                                    CCTGTTCCAAAGATTCCACTTT 22
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                (first entry)
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                   allergy;
                                                                                                                                                                                                                                                                                                                                                                                                           0.3%;
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                                                                                                                                                                                                                           BP
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Pred. No. 8.3e+02;
0; Mismatches 4
                   immune
                   deficiency; phosphorothicate;
                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 22;
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ABS7757/C
ID ABS775
XX ABS775
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XX Angiog
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XX Synthe
XX YOZOO:
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a method for stimulating an immune response. The method comprises administering an immunostimulatory nucleic acid to a non-rodent subject in sufficient quantity to stimulate an immune response. The present sequence is one such immunostimulatory nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. herpesviridae, retroviridae and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma, haemophilus, campylobacter, clostridium, Escherichia coli and/or staphylococcus), fungal antigens and/or parasitic antigens. The method is also useful for preventing cancer, asthma, infectious disease, allergy or immune deficiency. The present sequence can also be used to redirect a recent and to a Thl immune response and to activate immune cells. Note: the
                                                                                                           Anglogenesis inhibitor; ss; anglogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy, retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial anglogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vaccinating against tumors, infectious diseases, allergies and asthma using immunostimulatory Py-rich and TG nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-SEP-1999; 99US-0156113P
27-SEP-1999; 99US-0156135P
23-AUG-2000; 2000US-0227436P
                                                        Synthetic
                                                                                                                                                                                                                                                               Angiogenesis inhibitory oligonucleotide #61.
                                                                                                                                                                                                                                                                                                      13-DEC-2002
                                                                                                                                                                                                                                                                                                                                           ABS77577
                                                                                                                                                                                                                                                                                                                                                                              ABS77577 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present sequence may have a phosphorothicate backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 39; 338pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Krieg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-SEP-2000; 2000WO-US026383
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                                                                                             scleroderma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BP; 0 A; 0 C; 2 G; 20 T; 0
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                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                           hypertrophic scar.
                                                                                                                                                                                                                                                                                                                                                                              DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.6;
Pred. No. 8.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
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WO200253141-A2

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RESULT 660
ABQ93268/c
ID ABQ932
XX ABQ932
XX ABQ932
XX 29-AUG
DT 29-AUG
DT 21-OCT
XX Micros
XW Micros
XW Polymo
XW Giseas
XW geneti
XX Aegilc
OS Tritic
XX Aegilc
XX EP1217
XX EP1217
XX EP1217
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XX 21-RA
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Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, pasoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neowascular glaucoma, retrolental fibroplasia, reconstants of the content of th
                                                                                                                                                                                                                                                                                                                                                                                                                              Microsatellite marker; wheat; D genome; mapping; genotyping; polymorphism; phenotypic trait; QTL; quantitative trait locudisease-associated gene; development factor; quality factor; resistance factor; wheat product; identification; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma hypertrophic scars. The present sequence is an antiangiogenic nucleic acid of the invention
                                                                                                                                                                                                                                                                                                                                                                                                         genetically modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T. tauschii/wheat D genome microsatellite cfa2183 right PCR primer
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21-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABQ93268 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22 BP; 0 A; 0 C; 2 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inhibiting angiogenesis in a subject, involves administering at least one antiangiogenic nucleic acid molecule to the subject.
                                                                                                                                               22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                                                                                                                                                      Triticum aestivum.
                                                                                                                                                                                                                                                                                                                                                 Aegilops tauschii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABQ93268;
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                                   (INRG ) INRA INST NAT RECH AGRONOMIQUE
                                                                                      22-DEC-2000; 2000EP-00403659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLE-) COLEY PHARM GROUP INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5404 AAAAAGAAAAAATGAAAATAAA 5425
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (revised)
(first entry)
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Pred.
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RESULT ABV7717

밁 S

22

GCAGCTAATGAAGGAGAAGGAA 1

2115 GCAGCAGATGAAGCGGAAGGAA 2136

Query Match Best Local S Matches 18

Similarity

81.8%; 0.3%;

18;

Conservative

0; Mismatches Score 15.6; Pred. No. 8.

.3e+02

0;

Gaps

<u>.</u>

DB 1; Length 22; Indels

Sequence 22 BP; 2 A; 8 C; 2 G; 10 T; 0 U; 0 Other;

BX33XXX8

ABV77172;

ABV77172 standard;

DNA;

22

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27-OCT-2003 28-MAR-2003

(revised) (first entry)

Primer and probe for foot and mouth disease virus (FMDV)

3D

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CC genome location of a microsatellite marker selected from a group of 185 CC such markers (AB092713-AB092197). The invention also encompasses the use CC amplify and detect the microsatellite markers, and to identify genes consisting for a phenotypic trait of interest in wheat. Wheat is an allohaxaploid species consisting of 3 diploid genomes designated A, B and CC p, resulting from two successive intercrossings involving at least three CC most recent intercrossing, between the amphiploid ABBB and Triticum tauschii (DD), probably involving only a limited number of genotypes of the species. Due to its polyploid genome, the large size of its genome, CC and its low level of polymorphism, the genetic mapping of wheat has to between one and six nucleotides long, and are very polymorphic in length, CC polymorphism makes them especially suitable for the genetic mapping of inheritance. The 185 microsatellite markers of the invention are developed from the ancestral diploid donor species Triticum tauschii and the microsatellite markers of the invention are useful for identifying genes responsible for a phenotypic consecutive markers of the wheat D genome. These microsatellite markers and associated primers of the pennome of the particular they may be used for analysing genes and allelse invention are useful for identifying genes responsible for a phenotypic consecutive markers and associated primers of the coli. In a particularly Aegilops, Triticum monococcum, Triticum factors and and the microsatellite markers and associated primers of the coli. In consecutive markers and associated primers may be also be used in microsatellite markers and associated primers of the coli. In a particularly Aegilops, Triticum monococcum, Triticum factors and the microsatellite markers and associated primers may be also be used in markers wheat or a related species, to assess whether or not a product comprises wheat or a related species, to ridentifying cultivars and hybrids of conduct comprises genetically modified wheat. The present seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Map of wheat D genome comprising the genome location of a microsatellite marker, useful for e.g. identifying genes responsible for a desired phenotypic trait, especially quantitative trait loci in wheat, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bernard M,
                                                                     nicrosatellite marker right PCR primer of the invention.
                                           to standardise OS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     105pp; English
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                                                  field)
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RESULT 662
ADA00879/c
ID ADA008
XX
AC ADA008
XX
AC ADA008
XX
Mouse
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Best Local Similarity 81.8%;
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABV77170-83 represent primers and probes for foot and mouth disease virus (FMDV) 3D gene. A highly conserved area within the RNA polymerase gene is referred to as 3D. The probes and primers are useful for detecting a FMDV infection in a patient or for detecting an infection caused by any of several serotypes of FMDV. The primers and probes are especially useful for identifying FMDV infection caused by any of the FMDV serotypes such as Asia, A, C, O, Sat 1, Sat 2 or Sat 3. (Updated on 27-OCT-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel
virus
                                                                                                                                                                                                                                                                                                                                                                 ss; RT-PCR; type-I transmembrane protein; endothelial and smooth muscle cell-derived neuropilin-like molecule; ESDN; arterial sclerosis; restenosis;
        27-DEC-2001; 2001JP-00397725
                                                                                                                                                                        US2003129697-A1
                                                                                                                                                                                                                                                                                                          percutaneous transmembrane coronary angioplasty; PTCA; immune de immune disorder; tumour metastasis; diabetic retinopathy; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse ESDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADA00879 standard; DNA; 22 BP.
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                                                          10-JUL-2002; 2002US-00191436
                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                                                      reverse
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FMDV Asia; FMDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (TETR-) TETRACORE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2003-129441/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16; Page 8; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isolated nucleic acid useful for detecting foot and mouth disease infection in patient, and for detecting infection caused by ypes of the virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                _
                                                                                                                                                                                                                                                                                   transcriptase; primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RT-PCR primer #1
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Pred.
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No. 8.3e+02;
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                                                                                                                                                                                                                                                                                                                                          immune deficiency;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22
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RESULT 663
ACD993/C
ID ACD993
XX Immuno
XX Inmuno
XX Inmuno
YX Inflam
XX Inflam
YX INF
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Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a substantially purified form of a type-I transmembrane proteins, designated endothelial and smooth muscle cell-derived neuropilin-like molecule (ESDN). The ESDN polypeptide, CDNA, antibody or pharmaceutical composition is useful for treating arterial sclerosis, or restenosis after percutaneous transmembrane coronary angioplasty (PTCA). The ESDN polypeptide is also useful for screening reagents with antagonistic or agonistic activity. The antibody may be used for measuring the quantity of the ESDN polypeptide. The polypeptide is also useful for treating or preventing immune deficiencies and disorders, tumour metastases and diabetic retinopathy. The present sequence represents the mouse endothelial and smooth muscle cell-derived neuropilin-like molecule, ESDN, reverse transcriptase (RT)-PCR primer #1.
Treating non-allergic inflammatory diseases, such as psoriasis, allergic contact dermatitis, latex dermatitis or inflammatory be disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antilcer; gene therapy; vaccine; non-allergic inflammatory disease psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Honjo
                                                                                                                                                                                                                                                                        (KRIE/)
                                                                                                                                                                                                                                                                                                                                       29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-2002; 2002US-00112653.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACD99369 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2; Page 7; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   transmembrane coronary angioplasty.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Neuropilin-like molecule (BSDN) polypeptides or genes, useful for treating arterial sclerosis or restenosis after percutaneous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New human,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-635851/60.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunostimulatory nucleic acid
                                                                                                                          2003-521815/49.
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                                                                                                                                                                                                                                               KRIEG A M.
BERG D J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAAGGAGGAGGAGTTGGAGCAG
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                                                                                                                                                                                      Berg DJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mouse or rat Endothelial and Smooth muscle cell Derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 2 A; 12 C; 1 G; 7 T; 0 U; 0 Other;
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Pred. No. 8.3e+02;
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RESULT 664
ADB36438/c
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Best Local &
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Best Local S
                                                       Matches
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                                                                                                                                                                                                                     The invention relates to a method of treating or preventing allergy or asthma which comprises administering to a subject a poly-G nucleic acid in an aerosol formulation. The method and compositions of the present invention are useful for diagnosing and/or treating asthma and allergy especially in a hypo-responsive subject. The present sequence represent an immunostimulatory nucleic acid of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Treating and/or preventing allergy or asthma using an immunostimulatory nucleic acid alone or in combination with an asthma/allergy medicament.
                                                                                                                                                                   Sequence 22 BP; 0 A; 0 C; 2 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; Page 6; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-657977/62.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bratzler RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
hypo-responsive subject; immunostimulatory.
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(PETE/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 10; 229pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (FOUR/)
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5404 AAAAAGAAAAAATGAAAATAAA 5425
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ) BRATZLER R L.
) PETERSEN D M.
) FOURON Y.
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                                                                                    Similarity
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                                                       Conservative
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                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
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                                                                                 Score 15.6; DB 1;
Pred. No. 8.3e+02;
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Pred. No. 8.3e+02;
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                                                       Mismatches
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                                                                                                            Length 22;
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                                                          Indels
                                                       <u>.</u>
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                                                                                                                                                                                                                                                        represents
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                                                                                                                                                RESULT 666
ADF44288
                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 18; Conserv
                                                                                                                                                                                                                                                                                             The invention comprises oligonucleotides for detecting and identifying subtypes of human papilloma virus (HPV) contained in a sample. The oligonucleotides of the invention are useful for simultaneously detecting and identifying subtypes of HPVs. The present DNA sequence represents an HPV detection oligonucleotide of the invention.
                                                                                                                                                                                                                                                                            Sequence 22 BP; 2 A; 10 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                           Detector for identifying human papilloma virus subtypes, comprises carrier having two parts carrying first and second oligonucleotides that respectively hybridize with DNA contained in first and second subtypes of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probe; human papilloma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADC84386;
         JP2002360271-A
                           Human papillomavirus.
                                                                        HPV MM8
                                                                                                                 ADF44288;
                                                                                                                                     ADF44288 standard; DNA; 22 BP
                                                                                                                                                                                                                                                                                                                                                              Claim 4; SEQ ID NO 616; 221pp; English.
                                                                                                                                                                                                                                                                                                                                                                                   the virus.
                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-432398/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-OCT-2001; 2001EP-00123379.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human papillomavirus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human papillomavirus type MM8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADC84386
                                               detection; human papillomavirus;
                                                                                            12-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-OCT-2001; 2001EP-00123379
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Shih C,
                                                                       detecting probe MM809.
                                                                                                                                                                                                              GGTGGCCACAGCAGCCAAGCCT 5097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGGGCCGCCGCCAAGCCT 22
                                                                                                                                                                                                                                   Conservative
                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           You C,
Yeh C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       virus; HPV; detection; identification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Huang H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kao Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                             Score 15.6; DB 1; Length Pred. No. 8.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            detection oligonucleotide #9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lee B,
Pan C,
                                                   HPV subtype; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lee
Chan
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ָק ב
                                                                                                                                                                                                                                     Indels
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RESULT 667
ADG76036/c
ID ADG7603
XX ADG760
XX ADG760
XX Non-Cp
XX Non-Cp
XX Ps; in chronif
XX Plasma
XX Plasma
XX Plasma
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Best Local S
Matches 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention describes a novel detecting apparatus for identifying the subtypes of human papillomaviruses (HPV) contained in a sample which comprises a carrier which can load sample, a first oligonucleotide loaded on first part of the carrier and a second oligonucleotide loaded on second part of carrier, in which first and second oligonucleotides second part of carrier, in which first and second oligonucleotides hybridise with the DNA of the first and the second HPV subtype and can identify HPV subtype contained in sample at the same time. ADF43644-ADF44489 represent oligonucleotide probes used in the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ss; non-CpG; immunostimulatory; non-palindromic; immune response; proliferation; differentiation; cytokine; antibody production; B-plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma;
                      New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A detecting apparatus and a detecting method for identifying the subtypes of many species of human papilloma viruses at the same time and a composition for the detection.
                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-2003, 2003WO-EP005691.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003101375-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Non-CpG DNA oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADG76036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADG76036 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 22 BP; 2 A; 10 C; 9 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1, SEQ ID NO 645; 166pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-600935/57.
                                                                                                                                                                                                                                                                                      (IMMU-) IMMUNOTECH SA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (KING-) KING
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                                                                                                                                                                                                                                                                                                                                                    2002CA-02388049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAR FOOD IND CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001TW-00110785
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Pred. No. 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 8.3
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length .3e+02;
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Example 17; Page 81; 139pp; English

contain a non-palindromic sequence motif. Specifically, it refers to DNA oligonucleotides (without a CpG motif), which can stimulate an immune response in animals of the order of primate, including humans. The immune response is characterised by the proliferation, differentiation, cytokine and antibody production in B-cells, as well as cell differentiation and cytokine production in plasmacytoid dendritic cells. The present invention describes immunemodulator compositions that also comprise an antigen selected from, for example, viruses, bacteria, parasites, tumour cells and glycolipids. As such, these DNA oligos can be used in gene therapy for inducing B-cell activation, treating, preventing or ameliorating an immune system disorder or a tumoural disease including chronic myelogenous leukaemia, melanoma, Kaposi's sarcoma, and renal cell carcinoma. This oligonucleotide sequence is a non-cpG DNA oligo of the This invention novel immunostimulatory oligonucleotides that

Sequence 22 BP; 0 A; 0 C; 2 G; 20 T; 0 U; 0 Other;

Query Match Best Local Similarity Conservative 81.8%; 0.3%; 0; Mismatches Pred. Score 15.6; Pred. No. 8 8.3e+02; DB 1; Length 22; 0 0,

밁 S 5404 AAAAAGAAAAATGAAAATAAA 5425 22 AAAAACAAAAAAACAAAAAAAA 1

RESULT 66
ADG76002/
ID ADG76002/
AC ADG7
AC AD T 668 5002/c ADG76002 standard; ss; non-CpG; immunostimulatory; non-palindromic; immune response; proliferation; differentiation; cytokine; antibody production; B-plasmacytoid dendritic cell; immunomodulator; gene therapy; chronic myelogenous leukaemia; melanoma; Kaposi's sarcoma; Non-CpG DNA oligonucleotide 11-MAR-2004 cell (first entry) DNA; 22 BP.

30-MAY-2003; 2003WO-EP005691. 11-DEC-2003 WO2003101375-A2

(IMMU-) IMMUNOTECH SA

30-MAY-2002; 2002CA-02388049.

New immunostimulatory oligonucleotide comprising non-palindromic nucleic acid sequence motif, useful for inducing B-cell activation, treating, preventing or ameliorating immune system disorder or tumoral disease e.g.

139pp, English.

This invention relates to novel immunostimulatory oligonucleotides that contain a non-palindromic sequence motif. Specifically, it refers to DN oligonucleotides (without a CpG motif), which can stimulate an immune response in animals of the order of primate, including humans. The immune

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ARESULT 669
ADH70416/c
ID ADH704
AC ADH706
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; disease; syndrome; allergy; type II hypersensitivity; leprosy; infectious disease; viral infection; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;
                                                                                                                                                                                                                                                              Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, comparation of the comparation of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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19-SEP-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hood LE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rowen L;
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95US-00531241.
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Pred. No. 8.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypersensitivity;
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associated diseases

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a kit for diagnosing a h comprises a panel of

panel

and treating f nucleic acid

acid primers T-cell

The present invention describes a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding perilipin, and inhibits the expression of perilipin. Also described: (1) a compound 8-80 nucleobases in length that specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding perilipin: (2) a

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The invention relates to

Disclosure;

SEQ

ID NO 610; 164pp; English

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RESULT 670
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CC VbetaRNA or cDNA. The kit is useful for diagnosing organ transplant
CC rejection and diagnosing and treating T-cell associated diseases
CC including autoimmune diseases, degenerative nervous system diseases,
CC graft versus host disease, hypersensitivity diseases, infectious diseases,
CC and neoplastic diseases. Autoimmune diseases include Addison's diseases,
CC atrophic gastritis. Degenerative nervous system diseases include multiple
CC sclerosis and Alzheimer's disease. Hypersensitivity diseases include Type
CC I hypersensitivities such as contact with allergens that lead to
CC allergies, Type II hypersensitivities such as those present in
CC Goodpasture's syndrome and Type IV hypersensitivities such as those
CC caused by viruses such as HIV, fungal infections such as those caused by
CC the yeast genus Candida, parasitic infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC schistosomes, filaria and bacterial infections such as those caused by
CC breast. The present sequence represents a Vbeta gene repeat sequence.

CC breast. The present sequence represents a Vbeta gene repeat sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         perilipin; perilipin inhibitor; antisense oligonucleotide; antidiabetic; anorectic; antiarteriosclerotic; cardiant; metabolic disorder; diabetes; obesity; atherosclerosis; mouse; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22
                                                                                                                                                                                                                                                                                                                            New compounds, particularly antisense oligonucleotides targeted to nucleic acids encoding perilipin, useful for treating a metabolic disorder e.g. obesity, diabetes or atherosclerosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-JUL-2003; 2003WO-US023760.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse perilipin reverse PCR primer SEQ ID NO:13.
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Pred. No. 8
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RESULT 671
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Matches 18
   This invention relates to a novel method for the diagnosis of greater susceptibility to gastric carcinoma, comprising searching for a possible polymorphism in the promoter of the epithelial caderine (E-caderine) gene. The method is useful for identifying a genetic polymorphism that leads to a greater predisposition to the onset of gastric carcinoma. The method is relatively simple, quick, accurate and reliable. The present
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                                                                                                                                                                                                                                                             Claim 11; Page 12; 17pp; English.
                                                                                                                                                                                                                                                                                                                                 Identifying greater susceptibility to gastric carcinoma polymorphisms in the promoter of the E-caderine gene.
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence is that of E-caderine PCR primer 2 (from primer pair A) used during a method to identify the genotype of an individual for a C to I polymorphism at nucleotide -160 of the E-caderine gene and claimed in claim 11 of the specification
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e= "N-methyl-8-oxo-2'-deoxyadenine"
                                    base= OTHER
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e= "N-methyl-8-oxo-2'-deoxyadenine"
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inverted_polarity_region
"see comments"
                         "N-methyl-8-oxo-2'-deoxyadenine"
                                                                       "N-methyl-8-oxo-2'-deoxyadenine"
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Pred. No. 8
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RESULT 673
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                            Synthetic.
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07-DEC-1992
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the major groove of duplex DNA and are esp. useful for treating
infections e.g. HIV.
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/note= "N-methyl
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e= "OTHER= N6 methyl-8-oxo
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                                                N6 methyl-8-oxo 2' deoxyadenine"
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WPI; 1992-217083/26.
                   Froehler
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18-JAN-1991;
                                                                                                                                               25-NOV-1991;
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                                        (GILE-)
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                   Krawczyk
                                        SCI INC.
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91US-00683420.
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91US-00686547
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e= "OTHER= N6 methyl-8-oxo 2′ deoxyadenine"
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                   Matteucci MD,
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New oligomers contg. modified bases - which form a triplex with G-C doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis, herpes malignancy and inflammation.

Claim 12; Page 68; 77pp; English.

The synthetic oligomer is capable of forming a triplex at physiological pH with a purine rich target sequence by coupling into the major groove of the duplex. The specific target sequence of this oligomer is a cytomegalovirus duplex beginning at nucleotide 176 contg. a purine-rich region concentrated on one chain of the duplex. The oligomer, and others like it are useful in diagnosis and therapy of diseases characterised by specific DNA duplex targets, e.g. cytomegalovirus; HPV; HIV, hepatitis B, herpes, malignant tumours and inflammation. The triple helices form under mild conditions thus assays may be carried out without subjecting the test specimen to harsh conditions. The oligomer contains an inverted polarity region formed from an o-xyloso dimer synthon. The linking gp. is o-xyloso (nucleotides have the 3' positions of xylose sugars linked via the o-xylose ring). Two nucleotides are coupled through a xylene residue to form the dimer synthon. This additional modifications may render the

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Matches 16
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                                                                                                            AAT12435-T12454 represent phosphorothioate oligonucleotides with antiviral activity. These sequences, and the phosphorothioate oligonucleotides represented by AAT12418-T12434 (which are complementary to regions of the mRNA 4 or 5 of herpes simplex virus 1 (HSV)), are effective in the prevention and treatment of viral infection. The sequences are especially effective against infection by HSV, HIV or varicella zoster virus (VZV)
                                                                                                                                                                                                                                                                                                                                                26-JUL-1994;
01-NOV-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                oligomer stable to nuclease activity. The oligomer is able to inhibit gene expression, as verified by in vitro systems. See also AAQ25452-25501 and AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                        Sequence
                                                                                                                                                                                                                               Antiviral phosphoro:thioate oligo:nucleotide(s) - active against herpes simplex virus 1, HIV and varicella zoster virus.
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KAKEN PHARM CO LTD.
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94JP-00268603
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94.1%;
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                                                     Score 15.4; DB 1; Length 17;
Pred. No. 8.6e+02;
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Pred. No. 8.6e+02;
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Query Match Sequence 17

0.3%; C; 1

15.4;

멂 0 Other; ;

Length 17;

BP; 3 A; 11

G; 0 T; 2 U; Score

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A method has been developed for the identification of a nucleic acid CC capable of modulating a process in a biological system. The method CC comprises: (a) introducing into the system a random library of nucleic CC acid catalysts (NAC) having a substrate binding domain (SBD), comprising CC a random sequence, and a catalytic domain (CD); and (b) identifying NAC CC in systems where modulation has occurred and/or determining the sequence CC of at least part of the SBDs in such systems. Nucleic acid molecules with CC are used to modulate gene expression in plant and mammalian cells and to CC cleave target nucleic acid, particularly for treating systemic diseases CC caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic CC with RNA-cleaving activity that modulate expression of the RAG gene; are used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or CC generally any condition associated with the level of c-raf. Introduction of sugar/phosphate modifications increases stability against nuclease and CC activity. AAV90922 to AAV93877 represent NACs that can be used in the CC method, specifically for modulating the expression of a Raf gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying new catalytic nucleic acid that modulates selected processes - especially ribozymes that cleave Raf RNA for treating cancer, restenosis, and also new ribozymes and modified nucleoside triphosphates used as antiviral agents and synthons.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       target; substrate; catalyst; modulation; expression; Raf gene; delivery; screening; identification; synthesis; deprotection; purification; cancer; inflammation; psoriasis; non-hepatic ascites; infection; genetic drift; restenosis; rheumatoid arthritis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                           Claim 177; Page 157; 259pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-009494/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Jarvis T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-OCT-1997;
02-OCT-1997;
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22-AUG-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; c-raf; A-raf; B-raf; hammerhead ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Parry T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (RIBO-) RIBOZYME PHARM INC.
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J, Workman CT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matulic-Adamic J, Reynolds M, Kisich K,
Beigelman L, Mcswiggen JA, Karpeisky A,
, Workman CT, Beaudry A, Sweedler D;
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97US-0064866P.
97US-0068212P.
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97US-0056808P.
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97US-0049002P.
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RESULT 676
AAA25454/c
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                                                                                                                   CC with a target sequence and contain at least one phosphoro (di)thicate (CC link, having endonuclease activity. (A), and more generally any catalytic mucleic acid (A') that modulates expression of the oestrogen receptor cc gene, are used to treat cancer (particularly of breast or endometrium), in vivo or by transforming cells ex vivo and implanting treated cells, or cc for other conditions associated with levels of cestrogen receptor. CC Because of the high selectivity for targeted RNA, (A) can also be used to correlate inhibition of gene expression with alterations in phenotype, cc particularly for identification of therapeutic targets, and as research creatents (for RNA, in the same way that restriction endonucleases are used with DNA). The combination of modifications in (A) improves cc used with DNA). The combination of modifications in (A) improves cc used with DNA). The combination of modifications in (A) improves cc AAAA2747 represent oestrogen receptor hammerhead ribozyme sequences, and cc AAA25992 represent their corresponding target sequences, and CC AAA24748 to AAA25992 represent toestrogen receptor hairpin ribozyme cc sequences. AAA26105 represent toestrogen receptor hairpin ribozyme sequences and AAA26107 to AAA26271 represent other ribozyme sequences and created and continent of the present of modification of the present content of the present of modification of the present content of the present of modification of the present
 Query Match
Best Local Similarity
Matches 16; Conserv
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                                                                     Sequence 17
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Reynolds M, Zwick
Matulic-Adamic J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Oestrogen receptor; c-raf; k-ras; bcl-2; ribozyme; cleavage; hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide; gene expression modification; cancer; phosphorothioate; endonuclease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 77; Page 79; 148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acids that interact, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-APR-1998;
23-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             anticancer; breast cancer; endometrium cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oestrogen receptor hammerhead ribozyme target sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       present invention describes nucleic acids (A) that interact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1085 CCCCACCTCAGCCCAGC 1101
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to treat cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000-013248/01.
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                                                                       BP;
 0.3%;
ilarity 94.1%;
Conservative
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98US-00103636
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Score 15.4; DB 1; Length 17; Pred. No. 8.6e+02; 0; Mismatches 1; Indels
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is T, Woolf T,
                                                                       G; 15 T; 0 U; 0 Other;
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1; Mismatches 1
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Haeberli P;
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RESULT 677
ABL46875/c
ID ABL468
XX ABL468
XX ABL468
XX Human;
KW CO-Sti
KW CO-Sti
KW CO-Sti
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CC expres
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ABT38160
ID ABT3
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                                                                                                                                                       RESULT 678
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to oligonucleotides that downregulate the expression of human Grb2-related with Insert Domain (GRID) gene. GRID is a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful for modulating the expression of GRID, to treat conditions such as tissue/graft rejection and leukaemia. The oligonucleotides can also be administered in conjunction with other therapies such as radiation, chemotherapy and cyclosporin treatment. The present oligonucleotide was used to illustrate the invention
                                                                                                                                                                                                                                                                                                                                                 Sequence 17 BP; 3 A; 5 C; 5 G; 0 T; 4 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABL46875 standard; RNA; 17
                Tumour suppression related human fukutin oligo SEQ ID No 3797.
                                                    12-JUN-2003
                                                                                      ABT38160
                                                                                                                       ABT38160 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 4; Page 69; 108pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New nucleic acid(s) for regulating the Grb2-related with Ins (GRID) gene comprises using antisense and enzymatic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jarvis T,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             molecules such as hammerhead
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               co-stimulatory adaptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             leukaemia; cytostatic;
                                                                                                                                                                                                                                                                                                Local Similarity
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                                                                                                                                                                                                                                            4429 GAGGCCTTGGTGAAACC 4445
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                                                                                                                                                                                                                                                                                Conservative
                                                    (first entry)
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                                                                                                                                                                                                                                                                                               94.1%;
                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein; tissue rejection; graft rejection; ss.
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                                                                                                                                                                                                                                                                                                Pred. No.
                                                                                                                                                                                                                                                                                                               Score 15.4; DB 1; Length 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ribozymes.
                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                  Indels
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RESULT 679
ABZ22872/c
ID ABZ228
XX
AC ABZ228
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DT 07-APR
XX
XX
DB Locked
XX
XX
KW Phosph
KW cytost
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel isolated 17 mer nucleic acid sequence, cc given in the specification, a sequence containing at least 15 consecutive cc nigment, at least 17 mer sequence, a sequence with, after optimal cc alignment, at least 80 % identity to the 17 mer sequence that cc hybridizes to them under highly stringent conditions, or the complement cof any of them, or the corresponding RNA. The novel isolated nucleic acids of the invention are useful as probes and primers for detecting, cleantifying, quantifying and/or amplifying a nucleic acid, e.g. as one component of a gene chip, in vitro as (anti)sense reagents, and for production of recombinant polypeptides. Any of the nucleic acids, component of a gene chip, in vitro as (anti)sense reagents, and for component of a gene chip, in vitro as (anti)sense reagents, and for component of excombinant polypeptides. Any of the nucleic acids, containing the vector or antibodies directed against the polypeptides are useful for prevention and/or treatment of viral cd iseases that are characterised by development of tumours or cell cd seases that are characterised by development of tumours or cell components. Analysis of the expression of the 17 mer nucleic acids in components and the polypeptides can also be used to generate antibodies, and components of these polypeptides and antibodies are useful as components of these caid sequences of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention can be used in gene characterise of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
Phosphorothioate; locked nucleic acid; LNA; immunostimulatory; cytostatic; antimicrobial; gene therapy; pathogenic infection; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Page 477; 720pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip; antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; protein chip; gene therapy; tumour suppression; human fukutin; ds.
                                                                 Locked nucleic acid oligonucleotide LNA5.
                                                                                                                 07-APR-2003
                                                                                                                                                           ABZ22872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-313353/30.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-SEP-2001; 2001FR-00011978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-SEP-2002; 2002WO-IB004208.
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                                                                                                                                                                                                     ABZ22872 standard; DNA; 17
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                                                                                                                                                                                                                                                                                                                                                          3936 GATCAACCCACAGCACA 3952
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                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                  GATCAACCCACAGAACA 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP;
                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                               (firet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 A;
                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                        94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 C; 2 G; 1 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tuijnder M;
                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.4; DB 1; Length 17; Pred. No. 8.6e+02; O; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 Other;
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ADB45378/
ID ADB4
XX ADB4
AC ADB4
XX DT 18-D
XX Tumo
XX Tumo
XX Cytc
KW Cytc
KW prim
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                                                                                                                                                                                                                                                                                                                                                                                                                              CC comprising an oligonucleotide having at least one locked nucleic acid (C based on a functional molecy. Also described: (1) a complex (II) and a DNA sequence having a complementary sequence to the comprising (I) and a DNA sequence to the coligonucleotide, and encoding a gene under the control of a promoter; (2) a pharmaceutical composition (III) comprising (II) and a carrier or (C diluent; (3) a device loaded with (III); and (4) an oligonucleotide (IV) (C comprising a first region comprising an oligonucleotide sequence having at least one LNA, and a second region comprising an immunostimulatory (2) cligonucleotide motif. (I) has cytostatic and antimicrobial activities, and (2) can be used in gene therapy. (I) and (II) can be used in medicine, and (C can be used in gene therapy. (I) and (II) can be used in medicine, and (II) can be used in fercitions or cancer. (I) is useful for the preparation of (2) pathogenic infections or cancer. (I) is useful for the preparation of (2) cancer in the preparation of (3) phybridising (I) with a plasmid capable of expressing a gene (4) complex with a pharmaceutical carrier. The present sequence represents a complex with a pharmaceutical carrier. The present sequence represents a constant of the present sequence which is used in an example from the present
                                                                                                                                                                                                                                                                                                                               Query Match
Best Local &
                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel locked nucleic acid conjugate useful in manufacturing a medicament for treating or preventing pathogenic infections or cancer, has an oligonucleotide having locked nucleic acid based on a functional moiety.
                                                    Tumour suppression/reversion associated nucleotide #5701.
                                                                                                                          ADB45378
                                                                                                                                                        ADB45378 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                Sequence 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes a locked nucleic acid (LNA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-157022/15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-JUN-2002; 2002WO-GB002728
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 20; 101pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Catchpole IR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2002102825-A2.
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                                                                                                                                                                                                                                                                    1181 GAGAAAGAGAGAGAGAG 1197
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                                                                                                                                                                                                                                                                                                               16; Conserv
                                                                                                                                                                                                                                                GAGAGAGAGAGAGAG 1
                                                                                                                                                                                                                                                                                                             0.3%;
ilarity 94.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                 BP; 0
                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GROUP
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/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "N-terminally modified by TAMRA"
                                                                                                                                                                                                                                                                                                                                                                                 A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LID.
                                                                                      entry)
                                                                                                                                                                                                                                                                                                                                                                                 9 C; 0 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                             Score 15.4; DB 1;
Pred. No. 8.6e+02;
                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                               Length 17;
                                                                                                                                                                                                                                                                                                                 Indels
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has an
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cytostatic; antiviral; neuroprotective; nootropic; neuroleptic; primer; probe; tumour suppression; tumour reversion; apoptosis;

88;

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RESULT 681
AD151815
ID AD1518
AC AD1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to the isolation of 6327 nucleotide sequences, of fragments of at least 15 consecutive nucleotides of these nucleotides, a sequence having at least 80% identify, after optimal alignment, with the nucleotides, a sequence that hybridizes under stringent conditions with the nucleotides. The nucleotides are used as probes or primers for detecting, identifying, quantifying and/or amplifying nucleic acids, as in vitro sense and antisense sequences, of nucleotides involved in tumour suppression or reversion, apoptosis and or viral resistance, to produce recombinant polypoptides, and to prepare transgenic animals, as experimental models. The nucleotides (also vectors containing them and cells containing the vectors), the encoded polypoptides and antibodies (Ab) against the polypoptide are useful for prevention and/or treatment of viral infections or diseases characterized by development of tumours or cell degeneration (e.g. Alzheimer's disease or schizophrenia).

Chanlysis of the expression of the nucleotides can be used for diagnosis and/or prognosis of these diseases. The nucleotides and polypoptides can be used to screen for their specific interactive molecules.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
   Homo sapiens
                                                              cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe; primer; PCR; gene chip; antisense; viral disease; tumour; cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.
                                                                                                                                                               tumour suppression; tumour reversion; apoptosis; virus resistance;
                                                                                                                                                                                                                                                                                                                                                                                                                                              ADI51815 standard; DNA; 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-SEP-2002; 2002WO-IB004219.
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                                                                                                                                                                                                                                        Human
                                                                                                                                                                                                                                                                                                          15-APR-2004
                                                                                                                                                                                                                                                                                                                                                                            ADI51815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17 BP; 1 A; 7 C; 1 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                potentially useful for treating diseases associated with abnormal expression of the nucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-441574/41.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-SEP-2001; 2001FR-00011981.
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                                                                                                                                                                                                                                        tumour
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                                                                                                                                                                                                                                    suppression/reversion-related DNA sequence SeqID4318
                                                                                                                                                                                                                                                                                                      (first entry)
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Pred. No. 8.6e+02
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in the phenomena of tumour suppression, tumour reversion, apoptosis and/or resistance to viruses. The invention may be useful for the development of compounds with a cytostatic, virucide, neuroprotective, nootropic or neuroleptic activity. The DNA sequences may be useful as probes and primers for detecting, indentifying, quantifying and/or amplifying nucleic acid, for example as one component of a gene chip, in vitro as antisense reagents and for production of recombinant polypeptides. The invention may therefore be useful for preparation of pharmaceuticals for prevention and/or treatment of viral diseases that are characterised by development of tumours or cell degeneration, specifically cancer but also Alzheimer's disease and schizophrenia. The present sequence is that of a nucleic acid sequence of the invention. Note: The sequence data for this patent did not form part of the printed moneral directly true was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-2001; 2001FR-00011980.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003025177-A2
                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 4318; 30pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-313354/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Telerman A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (MOLE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-SEP-2002; 2002WO-IB004523.
                                                             specification,
                                                                                                                                                                                                                                                                                                                                                               invention relates to novel isolated nucleic acid sequences involved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULAR ENGINES LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Amson R,
                                                             but was obtained in electronic format
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tuijnder M;
                                                             part of the printed directly from WIPO
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밁 S Query Match Best Local S Matches 16 Sequence 17 BP; 8 A; 6 C; 2 G; 1 T; 0 U; 0 Other; Local Similarity 3936 GATCAACCCACAGCACA 3952 16; -GATCAACCCACAGAACA 17 Conservative 0.3%; 0, Score 15.4; DB 1; Length 17; Pred. No. 8.6e+02; Mismatches Indels 0, Gaps 0

at ftp.wipo.int/pub/publishedpct_sequences

ARESULT 682
ADM54233/C
ID ADM542
XX
AC ADM542
XX
DT 03-JUN
XX
DT 03-JUN
XX
Human
XX
Human
XX
Human
XX
Homo 8
XX
Homo 8
XX
Homo 9
XX
17-JUL
XX
PF 23-FEE
XX
PR 10-FEE
XX ADM54233 standard; mRNA; 17

ВP

03-JUN-2004 ADM54233;

(first entry)

Human GRID mRNA substrate sequence #508.

Human; 88; GRID; Grb2-related with insert domain; hammerhead ribozyme; NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNAzyme; amberzyme; Inozyme hairpin ribozyme; tissue rejection; graft rejection; leukaemia. Inozyme;

sapiens

US2003134806-A1.

17-JUL-2003

23-FEB-2001; 2001US-00792818.

10-FEB-2000; 2000US-0181594P

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RESULT 683
ADH70294/c
ID ADH702
XX ADH702
XX ADH702
XX Human
XX Human
XX hypers
KW hypers
KW Aller
KW Aller
KW Aller
KW Aller
KW HIV;
KW HIV;
KW HIV;
KW HOreas
XX Lymph
KW Oreas
XX Lymph
KW Homo
XX US200
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a nucleic acid molecule that down-regulates cappression of Grb2-related with insert domain (GRID) gene, e.g. a cappression of Grb2-related with insert domain (GRID) gene, e.g. a cappression of Grb2-related with insert domain (GRID) gene, e.g. a cappression or hairpin ribozyme. Also include are a mammalian cell including the novel nucleic acid molecule, reducing GRID activity in a cell by contacting the cell with the novel nucleic acid molecule, cleaving a patient having a condition associated with the level of GRID (e.g. tissue/graft rejection or leukaemia) by contacting the cell with the novel nucleic acid molecule, cleaving RNA of a GRID gene by contacting the cell with the novel nucleic acid molecule in a manner that allows its expression), a cald molecule in a manner that allows its expression), a mammalian cell including the expression vector and an enzymatic nucleic acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid molecule is useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is a target region for the enzymatic nucleic acids of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local 9
                                                                                                                 human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disease; hypersensitivity disease; infectious disease; neoplastic disease; hypersensitivity disease; neoplastic disease; addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; hipersensitivity disease; type I hypersensitivity disease; type I hypersensitivity disease; type I hypersensitivity; doodpasture's syndrome; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infections disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid molecule that down-regulates expression of Grb2-related with insert domain (GRID) gene, useful for treating a condition associated with the level of GRID, e.g. tissue/graft rejection and
                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADH70294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADH70294 standard; DNA; 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CARL/)
(MCSW/)
(HAMB/)
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) CARLOWITZ I V.
) MCSWIGGEN J.
) HAMBLIN P A.
) ELLIS J H.
                                                                                                     cancer;
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US2002150891-A1

degenerative nervous system disease; multiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; allergy; type II hypersensitivity; Goodpasture's syndrome; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease;

human; T-cell associated disease; Vbeta; autoimmune disea degenerative nervous system disease; graft versus host di hypersensitivity disease; infectious disease; neoplastic addison's disease; atrophic gastritis;

disease; ost disease;

disease;

Human Vbeta gene repeat sequence #180.

25-MAR-2004 ADH70390

(first entry)

ADH70390 standard; DNA; 17

ВP

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RESULT 684
ADH70390/c
ID ADH703
XX ADH703
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19-SEP-1995;
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Pred. No. 8.6e+02;
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DT 25-MAR
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Best Local S
Matches 16
human; T-cell associated disease; Vbeta; autoimmune disease; degenerative nervous system disease; graft versus host disea hypersensitivity disease; infectious disease; neoplastic dis
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                                                                                                                                                  Human Vbeta gene repeat sequence #172.
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nucleic acid primers
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Addison's disease; atrophic gastritis; degenerative nervous system disease; multiple sclerosis; degenerative nervous system disease; wultiple sclerosis; Alzheimer's disease; hypersensitivity disease; type I hypersensitivity; Goodpasture's syndrome; type II hypersensitivity; leprosy; infectious disease; viral infection; type IV hypersensitivity; leprosy; infectious disease; viral infection; HIV; fungal infection; Candida; parasitic infection; schistosome; filaria; bacterial infection; Mycobacterium; neoplastic disease; lymphoproliferative disease; leukaemia; lymphoma; cancer; brain cancer;
Disclosure; SEQ ID NO
                                                                                           Kit for diagnozing and treating T-cell associated diseases e.g. autoimmune, degenerative nervous system and infectious disease, nucleic acid primers specifically priming and allowing amplific
                                                                                                                                                                                                                                       WPI; 2004-059052/06.
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95US-00531241.
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576; 164pp; English.
                                                                                              disease, comprises amplification of a
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The invention relates to a kit for diagnosing and treating T-cell CC associated diseases which comprises a panel of nucleic acid primers CC specifically priming and allowing amplification of each Vbeta gene, CC VbetaRNA or CDNA. The kit is useful for diagnosing organ transplant CC rejection and diagnosing and treating T-cell associated diseases (clincluding autoimmune diseases, degenerative nervous system diseases, CC graft versus host disease, hypersensitivity diseases, infectious diseases, CC and neoplastic diseases. Autoimmune diseases include Addison's diseases, CC and neoplastic diseases. Autoimmune diseases include Addison's diseases, CC atrophic gastritis. Degenerative nervous system diseases include multiple CC clerosis and Alzheimer's disease. Hypersensitivity diseases include Type CC hypersensitivities such as contact with allegens that lead to CC clerosis and Pype II hypersensitivities such as those present in CC Goodpasture's syndrome and Type IV hypersensitivities such as those caused by viruses such as HIV, fungal infections such as those caused by claused by viruses such as HIV, fungal infections such as those caused by Schistosomes, filaria and bacterial infections such as those caused by Schistosomes, filaria and bacterial infections such as those caused by CC such as leukaemias, lymphomas and cancers such as cancer of the brain, CC breast. The present sequence represents a Vbeta gene repeat sequence.

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Sequence 17 BP; 0 A; 8 C; 0 G; 9 T; 0 U; 0 Other;
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AAT321
ID A
XX
AC A
                                                                    밁
                                                                                    ঠ
                                          RESULT 686
                                                                                                     Query Match
Best Local S
Matches 16
        AAT32141;
                         AAT32141 standard; DNA; 18
                                                                                                              Local Similarity
                                                                             1180 AGAGAAAGAGAGAGAGA 1196
                                                                    17
                                                                                                     16;
                                                                                                       Conservative
                                                                                                              0.3%;
                         ВР
                                                                                                      <u>.</u>.
                                                                                                               Score 15.4; DB 1;
Pred. No. 8.6e+02;
                                                                                                       Mismatches
                                                                                                              8.6e+02;
                                                                                                                       Length 17;
                                                                                                       0
                                                                                                      Gaps
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0

16-SEP-1996

(first entry)

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RESULT 687
AAT98144/c
ID AAT981
XX
AC AAT981
XX
AC AAT981
XX
DT 13-MAR
XX
DE Primer
XX
                                                                                                                                                                                                                                                                                                                         문
                                                                                                                                                                                                                       S
                                                                                                                                                                                                                                                                                                                                                               The present sequence is an example of a complementary sense strand from a convel DNA sequencing oligonucleotide called a "prinker" (primer/linker), which comprises a priming site, labelling region, cohesive end and complementary strand. The priming site is the optimal target for annealing prior to treatment with polymerase. The labelling region is a template sequence which directs DNA polymerase to incorporate multiple labelled, e.g. radioactive nucleotides. The cohesive end provides compatible ends for ligation of prinkers to restriction fragments. The compatible ends for ligation of prinkers to restranded DNA which is required by DNA ligases for the attachment of the prinker to a restriction fragment. A prefd. sequencing procedure comprises the generation of restriction fragments from the DNA mol. to be sequenced, ligation of prinkers to the fragments spon and purificin. of prinker attached restriction fragments, conc. and buffer exchange, generation and segue. of sequencing prods. exposure of x-ray film to sequencing prods.
                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-FEB-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sense strand; priming site;
                                                                                                                                                                                                                                                                                                                       Sequence 18 BP; 14 A; 2 C; 1 G; 1 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 5; 23pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New oligo:nucleotide(s) for DNA sequencing - having a priming site, labelling region and a cohesive end complementary to a restriction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1996-105934/11.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-JUL-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO9602673-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                  Primer V-alpha(16) for T-cell receptor alpha chain
                                                  13-MAR-1998
                                                                                 AAT98144;
                                                                                                               AAT98144 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fragment sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Leonard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-JUL-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA sequencing "prinker" (primer/linker) complementary sense strand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AMIC-) AMICON
                                                                                                                                                                                                                            5401 ACAAAAAAGAAAAAATG 5417
                                                                                                                                                                                                                                                                                                                                                       detection of the signal
                                                                                                                                                                                                                                                          al Similarity
16; Conserv
                                                                                                                                                                                              N
                                                                                                                                                                                              ACAAAAAACAAAAAATG 18
                                                                                                                                                                                                                                                           Conservative
                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA sequencing; oligonucleotide; prinker; primer; linker; labelling region; cohesive end; complementary strand; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94US-00275169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95WO-US008894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
/note= "forms doubled stranded segment when bound to
nucleotides 5-22 of the sequence given in AAT12342"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                       on the film
                                                                                                                                                                                                                                                                            Score 15.4;
Pred. No. 8
                                                                                                                                                                                                                                                                         Pred.
                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                         8.6e+02;
                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                         Length 18;
                    variable region.
                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                             0
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RESULT 688
AAXS5987/c
ID AAX859
XX AAX859
XX 13-SEP
XX PCR PT
XX Acquir
XW T cell
XW CD4+ T
XX Synthe
OS Synthe
OS Homo 8
XX US5928
XX US5928
XX US5928
PD 27-JUL
XX 18-OCT
XX 18-OCT
XX 19-NOV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method for removing an antibody specific for TCR-V beta (T-cell receptor V beta protein) from an HIV-infected person, by removing blood from the person, removing the antibody from the blood, and reintroducing the blood into the person, thus allowing attenuation or aversion of immunodeficiency. The primers AAT98100-T98150 are used to check the efficiency of removal by detecting expression of the TCR-V-beta and V-alpha genes in a blood sample after treatment. This primer is targetted to the variable region sequence of the alpha chain gene and can be used in the amplification with primers AAT98148 or AAT98149
                                                                                                                                                                  Acquired immune deficiency syndrome; free antibody; paratope; epitope; T cell receptor variable beta region; TCR-V beta region; binding agent; CD4+ T cell; HIV; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Removal of T-cell receptor-specific antibody from blood of HIV-infected person - by extracorporeal blood treatment, to attenuate or avert development of AIDS from HIV infection.
   09-NOV-1992;
                                                             27-JUL-1999
                                                                                                                      Synthetic.
Homo sapiens
                                                                                                                                                                                                                               PCR primer used to amplify T cell receptor Va region cDNA.
                                                                                                                                                                                                                                                             13-SEP-1999
                                                                                                                                                                                                                                                                                         AAX85987
                                                                                                                                                                                                                                                                                                                         AAX85987 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18 BP; 3 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Col 11; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1997-456759/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-NOV-1992;
18-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US5665355-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               constant region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Antibody; T-cell receptor; beta chain; human immunodeficiency virus; HIV; blood; attenuation; primer; PCR; amplification; variable region;
                               18-OCT-1994;
                                                                                           US5928642-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CONS-) CONSORZIO BIOTECNOLOGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                4298 TTCGGAAGGAACTGGAG 4314
                                                                                                                                                                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                     TTCAGAAGGAACTGGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92US-00973485.
94US-00408011.
   92US-00973485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        95US-00488212
                                 94US-00408011.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCR; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94.1%;
                                                                                                                                                                                                                                                                                                                         BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.4;
Pred. No. 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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0

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RESULT 689
AXX88163/c
ID AXX881
XX AXX881
XX O9-SEP
XX T cell
XX F cell
XX F cell
XX F CD4+ c
XX Synthe
XX US5925
XX US5925
XX O7-JUN
XX O9-NON
PR 09-NON
PR 18-OCT
XX Primi
XX Primi
XX Primi
XX Primi
XX Primi
XX Diagn
XX Examp
XX Examp
XX Examp
XX Examp
XX This
CC antib
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The specification describes a method for the diagnosis and treatment of acquired immune deficiency syndrome, in a person having free antibodies which have a paratope capable of binding to an epitope of a T cell receptor variable beta (TCR-V beta) region. The method comprises administering a binding agent homologous with the TCR-V beta epitope. The binding agent is useful in assays for detecting various CD4+ T cell subpopulations which carry particular V beta components. The binding agent is also useful in the treatment of people infected with HIV where it is able to remove an antibody able to bind with an epitope on a TCR-V beta cell in the blood of an infected person. The present PCR primer is used to amplify the TCR Va region, in the course of the invention
                                                                                                                                                                                                                                                                                                                                                                     T cell receptor; beta chain; primer; antibody; paratope; AIDS; vaccine; epitope; TCR-V beta; immunogenic; anti-idiotypic; antiviral; detection; CD4+ cell subpopulation; acquired immune deficiency syndrome; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                T cell receptor
                                                                                                                                                                                                                 09-NOV-1992;
18-OCT-1994;
                                                                                                                                                                                                                                                            07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAX88163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX88163 standard; DNA; 18
                                                                        Example
                                                                                                                              WPI; 1999-418267/35.
                                                                                                                                                                                                                                                                                      20-JUL-1999
                                                                                                                                                                                                                                                                                                                    US5925513-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-429481/36
                                                                                                                                                                                      (CONS-) CONSORZIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CONS-) CONSORZIO BIOTECNOLOGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                        1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTCAGAAGGAACTGGAG 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTCGGAAGGAACTGGAG 4314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and treatment of acquired immune
                                                                                                  and treatment of acquired immune
                                                                        C 01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        င္ပ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 3 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                      11-12; 42pp;
                                                                                                                                                                                                                92US-00973485.
94US-00408011.
                                                                                                                                                                                                                                                          95US-00488209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      57; 42pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                alpha chain primer V-alpha16.
                                                                                                                                                                                      BIOTECNOLOGIE
                                                                                                                                                                                                                                                                                                                                                                                                                                                          entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                     English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15.4;
No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
.6e+02;
                                                                                                  deficiency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 deficiency syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                  syndrome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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This invention describes novel method for binding free antibodies having a paratope specific to an epitope on a T cell receptor (TCR-V beta) while providing an immunogenic substance able to raise anti-inditypic antibodies which bind to free antibodies bound at the same paratope

This is an antisense oligonucleotide targeted to the coding sequence, nucleotide 700, of human survivin DNA (see AAA08903). AAA08910-49 were analyzed for effect on survivin mRNA levels by quantitative real-time PCR. The data obtained were averages from three experiments. This antisense oligonucleotide provided 18% inhibition of survivin mRNA. It was found that ISIS 23667 (AAA08925) provided 70% inhibition and ISIS 23672 (AAA08925) provided 70% inhibition and ISIS 23672 (AAA08926) provided 64% inhibition. Survivin, an IAP (inhibitor of apoptosis) Caspase inhibitor, has been found to be involved in cell cycle regulation and is expressed in the G2/M phase of the cell-cycle in a cell cycle regulated manner and associates with microtubules of the mitotic spindle. Disruption of this interaction results in loss of survivin's activity and increased canases a crivity during mitosis.

caspase-3

activity

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RESULT 690
RAA08931
ID AAA089
XX AAA089
XX AAA089
XX OLANG
DT 01-AUG
XX Surviv
XW Cell C
XX Synthe
OS Homo s
XX Homo s
XX Homo s
XX Synthe
OS Homo s
XX Homo s
XX Synthe
OS Homo s
XX Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              specific to the epitope on the TCR-V beta and introducing this into a person to raise anti-idiotypic antibodies. The products of the inventic have antiviral activity and can be used in vaccines. The specific antibody binding affinities are useful in assays which detect the presence of CD4+ cell subpopulations carrying particular V beta components of the TCR-V beta in people infected with acquired immune deficiency syndrome (ALDS). AAX88119-X88169 represents primers used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                     Antisense molecules targeted to in cancer cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-SEP-1998;
05-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA08931 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 3 A; 7 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                  Example 15; Page 68; 73pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200018781-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Survivin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human survivin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA08931;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4298
                                                                                                                                                                                                                                                                                                                                                                                                                                               2000-293103/25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cycle regulation; cancer; cytostatic; antisense oligonucleotide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18 TTCAGAAGGAACTGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SISI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTCGGAAGGAACTGGAG 4314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inhibitor of apoptosis; IAP; caspase inhibitor; caspase-3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ackermann EJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-00163162.
99US-00286407.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99WO-US022076.
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1. 18
/*tag= a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Swayze
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.4;
Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     oligonucleotide, ISIS
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                                                                                                                                                                                                                                                                                                                                                                                               Survivin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               떮
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cowsert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       backbone'
                                                                                                                                                                                                                                                                                                                                                                                                 useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3
                                                                                                                                                                                                                                                                                                                                                                                               for inducing apoptosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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RESULT 691
AAA5839/C
ID AAA583/C
ID AAA583/A
XX AAA583
AC BOLYNU
DA WO2000
PA WO2000
PA WO2000
PA 10-NOV
PR 10-NOV
P
Best Loc
Matches
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Matches
                                                             Query Match
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                                                                                                                                                                           The present invention relates to functionalised nanocrystals for use in nonisotopic detection systems for blomolecules e.g. nucleic acids, proteins, lipids or drugs. The nanocrystals have polynucleotide strands attached to their surfaces with one end of the polynucleotide extending outwardly from the nanocrystal. The present sequence is one such polynucleotide. These nanocrystals are used with a second series of nanocrystals, which have polynucleotides complementary to the first polynucleotides, so that the respective complementary strands hybridise to each other and form a dendrimer. This dendrimer produces a signal which can then be detected e.g. fluorescence. The present sequence is composed mainly of TC repeats. This sequence may therefore be used with polynucleotide composed mainly of AG repeats (AAAS8389)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caspase-3 is associated with apoptotic cell death. It is therefore believed that survivin may counteract a default induction of apoptosis in the GZ/M phase. It is also believed that the over expression of survivin in cancer may overcome this apoptotic check point, allowing undesired survival and division of cancer cells. Antisense oligonucleotides (ASO's) may be used to down regulate endogenous survivin and to increase caspase-3-dependent apoptosis in cells in the GZ/M phase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Functionalized nanocrystal carrying polynucleotide, used for detecting target analyte, forms dendrimers with complementary nanocrystals to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Barbera-Guillem E, Nelson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polynucleotide # 6 used in a biomolecule detection system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA58390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAA58390 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18 BP;
                                                                                                                           Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 3; Page 70; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amplify
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nanocrystal; biomolecule detection; nonisotopic detection system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (BIOC-) BIOCRYSTAL LTD.
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                                Local
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   16;
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                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the fluorescent signal.
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   Conservative
                                                                                                                           BP; 0 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US026612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98US-0107828P.
99US-00437076.
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                             94.1%;
                                                                                                                        8 C; 1 G; 9 T; 0 U;
                                                             0.3%;
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<u>,,</u>
                                                             Score 15.4; DB 1; Length 18;
                                Pred.
Mismatches
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                                ŏ.
                                8.6e+02;
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                                                                                                                           0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
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   Indels
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Gaps
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RESULT 692
AAA58389
ID AAA583
XX WO2000
XX WO2000
XX WO2000
XX HO-NON
XX HO-NON
XX HO-NON
XX BArbel
XX WPI; 1
XX WPI; 1
XX PHOCT
PT CAMPI; 1
XX
                                                                                                                                                                                                RESULT 693
AAZ77145
BXXXXX
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to functionalised nanocrystals for use in nonisotopic detection systems for blomolecules e.g. nucleic acids, proteins, lipids or drugs. The nanocrystals have polynucleotide strands attached to their surfaces with one end of the polynucleotide extending outwardly from the nanocrystal. The present sequence is one such polynucleotide. These nanocrystals are used with a second series of nanocrystals, which have polynucleotides complementary to the first polynucleotides, so that the respective complementary strands hybridise to each other and form a dendrimer. This dendrimer produces a signal which can then be detected e.g. fluorescence. The present sequence is composed mainly of AG repeats. This sequence may therefore be used with polynucleotide composed mainly of TC repeats (AAAS8390)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Punctionalized nanocrystal carrying polynucleotide, used for detecting target analyte, forms dendrimers with complementary nanocrystals to amplify the fluorescent signal.
                                                      10-SEP-2001
                                                                                                                                                                        AAZ77145 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 18 BP; 8 A; 0 C; 10 G; 0 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 3; Page 70; 72pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Barbera-Guillem E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-NOV-1998;
09-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200028088-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nanocrystal; biomolecule detection; nonisotopic detection system; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Polynucleotide # 5 used in a biomolecule detection system
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                                                                                                                                                                                                                                                                                                                                                                            1181 GAGAAAGAGAGAGAGAG 1197
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                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                     N
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAGAAAGAGAGAGAGA 1196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAGAGAGAGAGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                      (first entry)
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99US-00437076.
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                                                                                                                                                                           DNA;
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                                                                                                                                                                                                                                                                                                                     18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.4;
Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Castro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 18;
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Human biallelic marker downstream amplification primer SEQ ID NO:11501.

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RESULT 694
AAZ72859
ID AAZ7285
XX AAZ728
XX AAZ728
XX IO-SEE
XX IU-SEE
XX Human
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ65654 to AAZ69578 represent human biallelic markers from the present invention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers for the biallelic markers. The biallelic markers of the invention have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from
                                                    Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; bolymorphic base; genotyping; haplotyping; hybridiaation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymotypic base; genotyping; haplotyping; hybridisation; identification; characterisation; haplotyping; hybridisation; densitification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                     diagnosis;
                                                                                                                                             Human
                                                                                                                                                                              10-SEP-2001
                                                                                                                                                                                                                  AAZ72859;
                                                                                                                                                                                                                                                   AAZ72859 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 7 A; 0 C; 9 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pharmaceutical agents acting on a disease as well as other treatment.
N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               map
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel biallelic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-013267/01.
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23-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present invention
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                                                                                                                                                                                                                                                                                                                                                                              2436 GGATGAGAAGGGGAGAG 2452
                                                                                                                                           biallelic marker upstream amplification primer SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9; Page 2682; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the human genome.
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                              (first entry)
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98US-0109732P
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                                                                                                                                                                                                                                                     DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.4;
Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1; Length 18; .6e+02;
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RESULT 695
AAS21649
ID AAS216
XX AS216
XX AS216
XX 21-NOV
XX 21-NOV
XX Surviv
KW Surviv
KW hyperr
XX Hymon
OS Homo
OS Synthe
XX WO2001
XX WO2-FEE
XX W 1-FEE
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   have a variety of uses: they can be used for high density mapping of the human genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmaceutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmaceutical agents acting on a disease as well as other treatment. N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not actually given a sequence in the Sequence Listing from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAZ65654 to AAZ69578 represent human biallelic markers from the pre-
invention, which contain a polymorphic base at position 24 of their
nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
primers for the biallelic markers. The biallelic markers of the inve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cohen D,
                                                                                                                                                                                                                                                Human Survivin antisense oligonucleotide #114.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-013267/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-APR-1998;
23-NOV-1998;
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                              02-FEB-2000; 2000US-00496694.
                                                                                           09-AUG-2001
                                                                                                                         WO200157059-A1
                                                                                                                                                      Synthetic.
                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                hyperproliferative
                                                                                                                                                                                                                   Survivin;
                                                                                                                                                                                                                                                                              21-NOV-2001
                                                                                                                                                                                                                                                                                                            AAS21649;
                                                                                                                                                                                                                                                                                                                                         AAS21649 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         present invention
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   (ISIS-) ISIS PHARM INC
                                                           30-JAN-2001; 2001WO-US002939.
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                                                                                                                                                                                                                 human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blumenfeld
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 1 A; 6 C; 3 G; 8 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                              (first
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                                                                                                                                                                                                                 mouse;
                                                                                                                                                                                                    ouse; cytostatic; antisense oligonucleotide;
condition; cancer; apoptosis; cytokinesis; ss.
                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4; DB 1
Pred. No. 8.6e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
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RESULT 696
AAS21598
ID AAS215
XX
AC AAS215
XX
DT 21-NOV
XX
Human
XX
Homo i
OS Homo i
OS Synthi
XX
PN WO200
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PD 09-AU
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PF 30-JA
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to antisense oligonucleotides targeted to a acid molecule encoding human Survivin, where the antisense oligonucleotide inhibits the expression of human Survivin. These oligonucleotide inhibits the expression of human Survivin.
                                                                                                                                                                                                                                                                                                                                                                 Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                       Survivin; human; mouse; cytostatic; antisense oligonucleotide; hyperproliferative condition; cancer; apoptosis; cytokinesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 18 BP; 11 A; 0 C; 7 G; 0 T; 0 U; 0 Other;
   Example 16; Page 54; 120pp; English
                                                           Novel antisense compounds
                                                                                                                                    Bennett CF,
                                                                                                                                                                                                                                                 30-JAN-2001; 2001WO-US002939.
                                                                                                                                                                                                                                                                                          09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
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                                           treatment of
                                                                                                                                                                                                                                                                                                                              WO200157059-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1184 AAAGAGAGAGAGAAA 1200
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                                                                                                                                                                         PHARM INC
                                                                                                                                                                                                               2000US-00496694.
                                                                                                                                    Ackermann
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
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                                                           for modulating
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                                                                                                                                    Swayze
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                                                                                                                                      Cowsert
                                                             the
                                                             expression
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                                                             of Survivin
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RESULT 697
AMS21558
ID AMS215
AC AMS215
XX AMS215
XX Surviv
DH 21-NOV
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KW Synthe
XX Synthe
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XX O9-AUC
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acid molecule encoding human Survivin, where the antisense oligonuclectide inhibits the expression of human Survivin. These antisense oligonuclectides are used in the treatment of an animal suffering from a disease or condition associated with Survivin, e.g. a hyperproliferative condition such as cancer, and comprises administering a therapeutically or prophylactically effective amount of the antisense oligonucleotide so that expression of Survivin is inhibited. The
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                                                                                                                                                                                                                                                                                                                                                              Novel antisense compounds for modulating treatment of cancer.
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                                                                                                                                                                                                                         The invention relates to antisense oligonucleotides targeted to a nucleic
                                                                                                                                                                                                                                                                                                 Example 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-488863/53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-FEB-2000; 2000US-00496694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1184 AAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAGAGAGAGAGAGA 17
                                                                                                                                                                                                                                                                                             Page 53; 120pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ackermann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94.1%;
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Pred. No. 8.
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                                                                                                                                                                                                                                                                                                                                                                                                   the
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                                                                                                                                                                                                                                                                                                                                                                                             expression of Survivin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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RESULT 698
ABL61267
ID ABL612
XX Pol ge
KW Pol ge
KW HIV in
XX US6379
XX US6379
XX ADAM
XX (JOHN)
PA (ONNE)
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Best Local S
Matches 16
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                          This invention describes a novel method of analysing an HIV target nucleic acid which comprises amplifying the target sequence using primers specific for the HIV pol region (encoding the viral protease and reverse transcriptase) and analysing the amplified product. The invention is used to determine viral genotype of HIV infections by detecting known drug resistance mutations in the HIV pol gene. The detection of mutations conferring drug resistance in the HIV pol gene is significant in determining drug sensitivity of the virus. A 1.57 kilobase region of the HIV pol gene is a particularly important region containing clinically
                                                                                                                                                                                                                                                                                                                                                                                                                    Amplifying the HIV pol region using specific primers and a sequencing the product using specific sequence primers allows detection of known drug resistance mutations and so determination of viral genotype.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oligonucleotides can also be used to treat a human suffering from a disease or condition characterised by a reduction in apoptosis comprising administering the antisense oligonucleotide to a human. In addition, the
                                                                                                                                                                                                                                                                                                                                                                  Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-506465/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-APR-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HIV Pol sequencing primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18 BP; 10 A; 0 C; 8 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conrad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Johnston-Dow LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABL61267;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1184 AAAGAGAGAGAGAAA 1200
                                                                                                                                                                                                                                                                                                                                                           8; Col 13-14; 12pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KOHLENBERGER 1
CONRAD M.
MYERS A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer; viral protease; reverse transcriptase; genotyping;
tion; detection; drug resistance mutation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Myers A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        White CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Song
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sequence

represents a sequencing

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RESULT 699
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ID ABS972
XX ABS9722
XX ABS9722
XX ABS9722
XX ABS972
XX Human
XX Human;
XW Cytoch
XW Cytoch
XW Gytoch
XW Gytoch
XW Gytoch
XW Humf;
XW Cytoch
XW Humf;
XW Centra
XX Centra
XX Humo;
XX Centra
XX Humo;
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W cytochrome P450 A2; CYP4501A2; cytochrome P450 O2E; CYP45002E1; LTF;
W adrenergic receptor beta1; ADBR1; aryl hydrocarbon; AHR; MRP3; NR112;
W aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
W cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
W cyclooxgenase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
W cyclooxgenase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
W cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
W cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
W cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
W cyclooxgenase 2; COX2; bitstamine-N-methyl transferase;
W HMMT; kallikrein 2; KLX2; nicotinamide-N-methyl transferase; NNNT;
W NADPH quinone oxidoreductase 2, NQO2; sulfotransferase thermolabile; STM;
W UGT2B7; UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
W UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
W multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
W multidrug resistance associated protein 3; cancer; prostate;
W multidrug resistance ass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Loc
Matches
This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2), cytochrome P450 B2EI (CYP4500ZEI), adrenergic receptor betal (ABDRI), aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator (ARNT), cathepsin S (CTSS), cyclooxgenase 2 (COX2), diazepam binding inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-methyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the detection of clinically important regions of the described in the invention % \left\{ \mathbf{r}_{i}^{\mathbf{r}_{i}}\right\} =\mathbf{r}_{i}^{\mathbf{r}_{i}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Guida M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 18 BP; 6 A; 9 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Isolated nucleic acid molecules having polymorphisms in known human gene.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human CYP4502E1 promoter sequencing primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABS97214;
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                                                                                                                                                                                                                                                                                                                                                                                                                               Example 3; Page 103; 714pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disorder-related traits.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-NOV-2001; 2001WO-US044838.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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Pred. No. 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HIV pol gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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RESULT 700
ABI82302/c
ID ABI823
XX Human;
XX Infect
XX I
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CC sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
CC (UGT2B4), UDP-glucuronosyl transferase 2B7
CC (MTST), independent of the first of the genes are esponsible for a variety of disorder-related conditions and are useful as genetic linkage markers for locating and characterising the genes that the genes are specific traits within the genome and eventually conditions or underexpression, which may be used in diagnosing the genes responsible for a variety of disorder-related conditions or underexpression, which may be used in diagnosing the disorders. The nucleic acid molecules comprising the colymorphic sequences contained in CYP4501A1, CYP94501A2, CYP4501Z1, CC ARMT, EPHX2, GST12, NMMT, NQO2, NRI12, STM, UGT2B4, UGT2B5, AHR, CC MDR1 and/or MDR3 are useful for screening individuals for altered drug metabolism. The polymorphic sequences contained in CYP4501A1, CYP94501A2, CYP94501A2, CYP94501A3, CYP94501A3, CYP94501A3, CYP94501A3, CYP94501A3, CYP94501A4, CYP94501A4, CYP94501A4, CYP94501A5, CYP94501
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                    Barany F,
                                                                                                                                                                                                                                                                                                                                                                                                                 04-APR-2001; 2001WO-US010958.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200179548-A2
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                                                                                                                                                                                                                                                                                                                       14-APR-2000; 2000US-0197271P
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                                                                                                                                                                                                                                  CORNELL
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                                                                                                                                    Zirvi M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 5
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llarity 94.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 detection primer/probe #181
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                                                                                                                                                                                                                                  RBS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; 9 C; 4 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                             FOUND INC
                                                                                                                                             Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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0; Mismatches
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Pred. No. 8.
                                                                                                                                        Favis R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.6e+02;
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                                                                                                                                             Kliman R;
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Sequence 18 BP; 3 A; 4 C; 8 G; 3 T; 0 U; 0 Other;

0.3%;

DB 1;

Length 18;

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The present invention describes a method (M1) for designing capture CC oligonucleotide probes (I) for use on a support to which complementary CC oligonucleotide probes (II) will hybridise with little mismatch, where CC (I) have melting temperatures within a narrow range. The method is useful corporations diseases caused by bacterial infectious agents (I) for detectious agents e.g. Cryptococcus neoformans, Candida albicans and CC aspecyllus funiquatus, viruses e.g. T-cell lymphocytotrophis cirus, CC Epstein-Barr virus and polio virus, and parasitic infectious agents e.g. Estenced from Onchoverra volvulus, Entamoeba histolytica and Dracunculus medinesis. The method is also useful for detecting genetic diseases such CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects. CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes cinvolved in DNA amplification, replication, recombination or repair, the CC cancer is specifically associated with a gene selected from BRCA1 gene, pushed is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning cleaturar sites and identifying if ligation of the oligonucleotide probe gets occurred and correlating (using a computer) identified ligation to a presence or absence of the target nucleotide sequences. ABI92074 to of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.
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RESULT 701
AB182323/C
ID AB1823
XX AB1823
XX AB1823
XX AB1823
XX IS-PEB
XX P53 mu
XX Human,
KW Infect
KW oncoge
KW infect
KW oncoge
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XX Synthe
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OS Synthe
XX Homo a
OS Synthe
XX IS-OCT
XX AS Synthe
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                           Barany F,
                                                                                                                                                                                                                             14-APR-2000; 2000US-0197271P.
                                                                                                                                                                                                                                                                                                        04-APR-2001; 2001WO-US010958.
                                                                                                                                                                                                                                                                                                                                                                                    25-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               p53 mutation detection primer/probe #202.
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                                                                                                                                                      (CORR ) CORNELL RES
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                                                                           Zirvi M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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                                                                                                                                                      FOUND INC
                                                                           Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
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Pred. No. 8
                                                                           Favis R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.6e+02;
                                                                                   Kliman
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WPI; 2002-034366/04

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RESULT 702
ABIB2303/c
ID ABIB23
XX ABIB23
XX ABIB23
XX DT 15-FEB
XX 119aBe
XX 119aBe
XX 119aBe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC oligonuclectide probes (II) will hybridise with little mismatch, where CC (I) have melting temperatures within a narrow range. The method is useful CC (I) have melting temperatures within a narrow range. The method is useful CC for detecting infectious diseases caused by bacterial infectious agents CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and CC Aspergillus fundyautus, viruses e.g. T-cell lymphocytotrophis cirus, CC Epstein-Barr virus and polio virus, and parasitic infectious agents and CC Epstein-Barr virus and polio virus, and parasitic infectious agents CC medinesis. The method is also useful for detecting genetic diseases such CC electing cancer involving oncogenes, tunour suppressor genes, or genes CC involved in DNA amplification, replication, recombination or repair, the CC cancer is specifically associated with a gene selected from BRCA1 gene, CC method is also used for environmental monitoring, forensics and the food and feed industry, detecting comprises scanning (using e.g. a scanning clectron microscope and infrared microscope) the support at the CC gresence or absence of the target nucleotide sequences. ABI92074 to a first involving only on the support at the confirmation or absence of the target nucleotide sequences. ABI92074 to a first invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; K-ras; PCR primer; probe; Capture prove; infectious disease; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; infection; 21 hydroxylase deficiency; Turner Syndrome; cobesity; cancer; infection; 21 hydroxylase deficiency; formatic; cancer; ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABI82303 standard; DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.
                                                       Barany F,
                                                                                                                                                                                                                                                                                                                            04-APR-2001; 2001WO-US010958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    p53 mutation detection primer/probe #182.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18 BP; 2 A; 4 C; 9 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                    14-APR-2000; 2000US-0197271P
                                                                                                                                                                                                                                                                                                                                                                                                                     25-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200179548-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               environmental monitoring;
                                                                                                                                           (CORR ) CORNELL RES FOUND INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               present invention describes a method (M1) for designing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4737 GGAGACCCATCCTCACC 4753
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGAGGCCCATCCTCACC 1
                                                       Zirvi M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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                                                       Gerry NP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               food industry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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Pred.
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                                                       Favis R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15.4;
No. 8.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    feed industry;
                                                            Kliman R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
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RESULT 703
AAL47145/c
ID AAL471
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AAL471
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AAL471
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Pyrin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pyrin domain; PYD domain; antiinflammatory; antiparkinsonian; antiarteriosclerotic; antipsoriatic; antibacterial; virucide; neuroprotective; antiarthritic; antirheumatic; antiasthmatic; nephrotropic; osteopathic; nootropic; intracellular signal transduction; inflammation; Alzheimer's disease; infection; psoriasis; asthma; arteriosclerosis; multiple sclerosis; rheumatoid arthritis; sarcoidosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Designing capture oligonucleotide probes for use on a support to which complementary oligonucleotides hybridize with little mismatch.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oligonucleotide probes (I) for use on a support to which complem oligonucleotide probes (II) will hybridise with little mismatch, (II) have melting temperatures within a narrow range. The method
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                                                                           15-NOV-2000; 2000DE-01056687.
30-NOV-2000; 2000DE-01059595.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pyrin domain containing protein coding sequence PCR primer
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                                                                                                                                                                                                    30-OCT-2001; 2001WO-EP012545.
                                                                                                                                                                                                                                                                                                                                                                   WO200240668-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             osteoarthritis; glomerulonephritis; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-AUG-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             present invention describes a method (M1) for designing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4737 GGAGACCCATCCTCACC 4753
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP
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Pred. No. 8.6e+02;
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RESULT 704
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates the DNA and their encoded proteins, where the proteins contain at least one PYD (pyrin) domain. These can be used to treat diseases associated with impaired intracellular signal transduction, particularly inflammation such as psoriasis, arteriosclerosis, bacterial or viral infections (particularly meningitis and pneumonia), multiple sclerosis, rheumatoid arthritis, asthma, sarcoidosis, glomerulonephritis and osteoarthritis, and also Alzheimer's and parkinson's diseases. The present sequence is a PCR primer used to isolate a coding sequence of the invention
                                                                                                      New nucleic acid comprising a mutation in LRP5 or LRP6, useful diagnosing a HBM-like phenotype in a subject and for preparing composition for modulating bone mass and/or lipid levels in a suffering from e.g. osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                              11-MAY-2001; 2001US-0290071P.
17-MAY-2001; 2001US-0291311P.
01-FEB-2002; 2002US-0353058P.
04-MAR-2002; 2002US-0361293P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6; bone mass modulation; osteoporosis; PCR; primer; ss.
                                                       Disclosure, Page 53; 629pp; English.
                                                                                                                                                                                                                                             WPI; 2003-129214/12.
                                                                                                                                                                                                                                                                                                                                                   (GENO-)
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                                                                                                                                                                                                                                                                                                                                                      GENOME WYETH.
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                                                                                                                                                                                                                                                                                                 Anisowicz
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                                                                                                                                                                                                                                                                                                                                                                               THERAPEUTICS
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                                                                                                                                                                                                                                                                                                 Graham
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G; 3 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 8.0c
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.4; DB 1; Length 18;
                                                                                                                                                                                                                                                                                                 덫
                                                                                                                                                                                                                                                                                                 Morales
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
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                                                                                                                                                                                                                                                                                                 Yaworsky PJ,
                                                                                                                                    a subject
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The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and

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AGCCTACAGCCCCACCA 1277

0,

Mismatches

Indels

0,

Сарв

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RESULT 705
ADI34074
ID ADI340
XX ADPL
XX ADI361
XX ADI36
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Best Local S
Matches 16
Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                           The present invention relates to a method for amplifying and sequencing HIV pol region DNA. Also disclosed is a kit comprising first and second primers, and a temperature-stable DNA polymerase. The invention also discloses a method for obtaining de novo sequence information for different HIV quasi-species present in a patient's sample. The kit is useful for HIV sequencing and genotyping, particularly for amplifying regions of the HIV pol gene. It is also useful for automated sequence analysis and determination of heterozygosity. The present sequence represents a sequencing primer for HIV pol region DNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New kit comprising first and second primers, and a temperature-stable DNA polymerase, useful for HIV sequencing and genotyping, and for automated sequence analysis and determination of heterozygosity.
                                                                                                              Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 3; SEQ ID NO 5; 11pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Johnston-Dow LA, D
Conrad M, Myers A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-MAR-2002; 2002US-00092022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNA amplification; sequencing; HIV pol; genotyping; sequence analysis; heterozygosity; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HIV pol region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADI34074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADI34074 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LRP6 mutants, which results in a HBM-like phenotype when expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3422 ТСАСССАССААСТСАСС 3438
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0.3%;
nilarity 94.1%;
Conservative
                                                                                                                 BP; 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
llarity 94.1%;
Conservative
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                                                                                                                 A; 9 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Demeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
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                          Score 15.4; DB 1
Pred. No. 8.6e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              White
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      primer #1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Song
                                                           DB 1;
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                                                     Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kohlenberger R;
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                                                           18;
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RESULT 706
ADH02714
ID ADH027
XX ADH027
XX ADH027
XX ADH027
XX AU
DT 11-MAR
XX HIV; p
XX HIV; p
XX US2003
XX 27-NOV
XX 31-DEC
XX 31-DEC
XX 21-SEP
PR 05-MAR
XX (JOHN/
PA (DEME/
PA (WHIT/
PA (CONR/
PA (ACHI/
PA (CONR/

RESULT 707
ADI20873/c
ID ADI208
XX
AC ADI208
XX
AC ADI208
XX
DT 06-MAY
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                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid sequence. The method comprises combining a double stranded nucleic acid template derived from HIV, first and second primers, a temperature-stable DNA polymerase and decoxyribonucleotides, amplifying the double-stranded nucleic acid template to produce amplified target sequences, and analysing the amplified target sequences. The determined sequence can be compared to the sequence of known drug mutations in the HIV pol gene. The method of the invention is useful for HIV sequencing and genotyping. The present sequence represents a sequencing primer used in the method of the invention.
        06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18 BP; 6 A; 9 C; 3 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Analyzing an HIV target nucleic acid sequence by amplifying the double-stranded nucleic acid template derived from HIV to produce amplified target sequences and analyzing the amplified target sequences.
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                                                             ADI20873;
                                                                                                                  ADI20873 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to a method for analysing a HIV pol gene nucleic acid sequence. The method comprises combining a double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 8; SEQ ID NO 5; 14pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-010863/01.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Johnston-Dow LA, D
Conrad M, Myers A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-SEP-1998; 98US-00158695.
05-MAR-2002; 2002US-00092022.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIV; pol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADH02714;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (MHIT/)
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                                                                                                                                                                                                                                                                                                                   1261
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MYERS A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEMETER L.
WHITE C B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOHNSTON-DOW L A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KOHLENBERGER R. CONRAD M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SONG K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene; drug mutation; HIV sequencing; HIV genotyping; primer; ss.
                                                                                                                                                                                                                                                                                                              AGCCTACAGCCCCACCA 1277
                                                                                                                                                                                                                                                            AGCCAACAGCCCCACCA 17
                                                                                                                                                                                                                                                                                                                                                                           Conservative
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     (first
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                                                                                                                  DNA; 18
                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
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     entry)
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                                                                                                                     BP
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                                                                                                                                                                                                                                                                                                                                                                  Score 15.4; DI
Pred. No. 8.6e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 White CB,
                                                                                                                                                                                                                                                                                                                                                                                                15.4; DB 1; Length 18; No. 8.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Song K,
                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kohlenberger
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RESULT 708
ADQ88986/c
ID ADQ889
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AC ADQ889
AC ADQ889
DT 23-SEP
XX
DE Breast
XX
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                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to detecting the methylation state of the CC contacting a target nucleic acid having one or more sequences selected CC from 5 3581 base pair sequences in a biological sample with at least one CC methylation state of the 5' and promoter region of the gene DD3 within a CC subject. The set of oligonucleotides comprising at least three of the 5' and promoter region of the gene DD3 within a CC single nucleotide polymorphisms (SNPs) within SEQ. ID NO. 1-5 and its complementary sequences. The set of oligoners is also useful for detecting the methylation state of all CpG dinucleotides within SEQ ID NO. 1-5 and its complementary sequences. The set of oligoners is also useful for CC oligonucleotides can be used as primer oligonucleotides within SEQ ID NO. 1 and its complementary sequences. The set of all CpG dinucleotides within SEQ ID CC oligonucleotides can be used as primer oligonucleotides for the CC complementary sequences. The DNA- and/or PNA-array is useful for CC complementary sequences. The DNA- and/or PNA-array is useful for CC complification of DNA sequences selected from SEQ ID NO. 1-5 and its Comprising at least one nucleic acid. The methylation state of the gene DD3 CC comprising at least one nucleic acid. The methods, nucleic acids, CC oligonucleotide or PNA-ollgomer, kit, array or the set of incerders. It can complementary predisposition to cell proliferative disorders. It can also be used for the therapy of cell proliferative disorders. The present sequence represents a detection oligonucleotide of the invention.
                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18 BP; 2 A; 0 C; 1 G; 15 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Detecting methylation of 5' and promoter region of DD3 gene for diagnosing proliferative disorders comprising contacting target nucleic acid with a reagent that distinguishes between methylated and non-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-JUL-2002; 2002DE-01030692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DD3; CpG dinucleotide; cell proliferative disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MS SnuPE detection oligonucleotide for
               Breast cancer associated polymorphism detection
                                                         23-SEP-2004
                                                                                               ADQ88986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            methylated CpG dinucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO2004005543-A1
                                                                                                                                     ADQ88986 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUN-2003; 2003WO-EP006690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (EPIG-) EPIGENOMICS
                                                                                                                                                                                                                                                        5389 AATTAAAAAAATACAAA 5405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2004-091385/09.
                                                                                                                                                                                                                                  17
                                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 76; 56pp; English.
                                                                                                                                                                                                                                                                                                            Conservative
                                                         (first entry)
                                                                                                                                     DNA; 18
                                                                                                                                                                                                                                                                                                                             94.1%;
                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                          ٥,
                                                                                                                                                                                                                                                                                                                               Pred. No.
                                                                                                                                                                                                                                                                                                                                             Score 15.4;
                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DD3
                                                                                                                                                                                                                                                                                                                               8.6e+02;
                                                                                                                                                                                                                                                                                                                                               DB 1; Length 18;
                     primer #84.
                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                              Gaps
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0;

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RESULT 709
ANTO9139
ID AATO91
XX AATO91
XX AATO91
XX O2-AUG
DT 02-AUG
XX Suppre
KW Suppre
KW Immune
XX Synthe
XX Synthe
XX Key
FT misc_f
FT misc_f
FT misc_f
FT
FT
XX W0953:
XX PN W0953:
XX PD 28-DE(
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   문
                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a method of identifying (MI) a subject at risk of breast cancer. The method comprises detecting the presence or absence of one or more polymorphic variations associated with breast cancer in a nucleic acid sample from a subject. The methods, nucleic acids, proteins, and compositions are useful for diagnosing, preventing, and treating breast cancer. Also described is a method useful for identifying candidate therapeutics for treating breast cancer. This sequence represents an extension primer used to analyse polymorphisms associated with breast cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying a subject at risk of breast cancer comprises detecting the presence or absence of one or more polymorphic variations associated with breast cancer in a nucleic acid sample from a subject.
                                                                                                                                                                  Synthetic
                                                                                                                                                                                            Suppression; nuclear factor kappa-B; primer; septic shock; cytokine; immune response; retrovirus; infection; HIV; antisense; translation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-NOV-2002; 2002US-0429136P.
24-JUL-2003; 2003US-0490234P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic; gene therapy; breast cancer; polymorphism detection; PCR; primer; ss; extension primer.
    28-DEC-1995
                                                                                 misc_feature
                                                                                                                                                                                                                                                                02-AUG-1996
                                                                                                                                                                                                                                                                                                                     AAT09139 standard; DNA; 19 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roth RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-NOV-2003; 2003WO-US037831.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-JUL-2004.
                             WO9535032-A1
                                                                                                                         misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2004055196-A2
                                                                                                                                                                                                                                                                                                                                                                                                                3899 AGATTGAATTCTGTGTG 3915
                                                                                                                                                                                                                                                                                                                                                                                         17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENOM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nelson MR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page 61; 83pp; English.
                                                                                                                                                                                                                                     construct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 6 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                               (first entry)
                                                                                    18. .19
                                                                                                                          Location/Qualifiers
                                                    /*tag= C
/note= "internucleotide phosphothioate linkage"
                                                                                              /*tag= b
/note= "internucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6 C;
                                                                                                                                                                                                                                    sense primer binds bases 718-737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Braun A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 щ
                                                                                                                                                                                                                                                                                                                                                                                           μ
                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.4; D
Pred. No. 8.6e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kammerer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.6e+02;
                                                                                               phosphothicate linkage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reneland
                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               æ
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                              88
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RESULT 710
AAT09138/c
ID AAT091
XX AAT091
XX O2-AUG
DT 02-AUG
XX Suppre
KW Suppre
KW Immune
XX Synthe
FT misc_f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The oligonucleotide AAT09138-40 were used in an assay to test for conhibition of translation of the tax protein and transactivation of the CC inhibition of translation of the tax protein and transactivation of the CC fibroblastic tumours generated in transgenic mice overexpressing the tax corotein. The oligonucleotides acts to suppress tax protein translation complete the nactivate the HTLV-1 LTR and leading to a suppression of CC which cannot then activate the HTLV-1 LTR and leading to a suppression of CC corresp. to bases 718-737 of an HTLV-1 LTR/tax construct (see Nerenberg CC corresp. to bases 718-737 of an HTLV-1 LTR/tax construct (see Nerenberg CC suppressing nuclear factor kappa-B (NF-kB) dependent processes such as CC suppressing nuclear factor kappa-B (NF-kB) dependent processes such as CC suppressing nuclear factor kappa-B (NF-kB) dependent processes or CC retroviral infections, partic. HIV, comprises novel antisense CC oligonucleotides (AAT09134-7) targeted to translation from the start site constructs and the start site constructs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                               misc_feature
                                                                                                                                                                                                                                                                                                                            misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Suppression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HTLV-1/tax construct antisense primer binds bases 718-737.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAT09138;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAT09138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19 BP; 3 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        on the NF-kB mRNA is prevented
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 15; 52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New anti:sense oligo:nucleotide(s) against nuclear factor-kappa B subunit mRNA - used to suppress NF-kB dependent processes in individuals, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1996-058150/06.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nerenberg MI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-AUG-1994;
                                                                                                                                                                  misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          septic shock.
                                                           WO9535032-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SCRI ) SCRIPPS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4066 TTCCANATGGCCCACTT 4082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCCACATGGCCCACTT 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nuclear factor kappa-B; primer;
nse; retrovirus; infection; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kitajima I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93US-00110161.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         94WO-US009350.
                                                                                                                                                                                                                                               /*tag= a
/note= "translational initiation codon'
17. .18
                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                            /note= "internucleotide
                                                                                                                 'note= "internucleotide
                                                                                                                                                                                                                              *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                 phosphothioate linkage"
                                                                                                                                                                                              phosphothicate linkage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antisense; translation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    septic shock; cytokine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 19
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28-DEC-1995

88

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RESULT 711
AAT46087
ID AAT460
XX AAT460
XX Primer
XX 19-FEE
XX STS; E
KW Yeast
XX Synthe
XX Synthe
XX 17-SEI
XX 17-SEI
XX 17-API
XX 10NIW
XX 10NIW
XX WPI;
XX WPI;
XX WPI;
XX WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The oligonucleotide primers AAT09138-40 were used in an assay to test for inhibition of translation of the tax protein and transactivation of the HTLV-1 long terminal repeat (LTR) in a HTLV-1 LTR/tax construct in mouse fibroblastic tumours generated in transgenic mice overexpressing the tax protein. The oligonucleotides acts to suppress tax protein translation which cannot then activate the HTLV-1 LTR and leading to a suppression of potential tumourogenic growth of cells. This antisense oligonucleotide is targeted to bases 718-737 of an HTLV-1 LTR/tax construct (see Nerenberg et al., Science, 237: 1324 (1987). Similarly a novel method of suppressing nuclear factor kappa-B (NF-kB) dependent processes such as septic shock or disorders mediated by immune or cytokine responses or retroviral infections, partic. HIV, comprises novel antisense oligonucleotides (AAT09134-7) targeted to translational start site sequences (AAT09130-3) of NF-kB such that translation from the start site
                WPI; 1996-432990/43
                                                                                                                                                                                            US5556786-A.
                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                  Primer for
                                                                                                                                                                                                                                                                                                                               19-FEB-1997
                                                                                                                                                                                                                                                                                                                                                            AAT46087
                                                                                                                                                                                                                                                                                                                                                                                        AAT46087 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 19 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nerenberg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-AUG-1994;
                                            De La Chapelle A,
                                                                                                                                    27-APR-1993;
                                                                                                                                                                 17-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New anti:sense oligo:nucleotide(s) against nuclear factor-kappa B subunit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-AUG-1993;
                                                                           (UNIW ) UNIV WASHINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SCRI ) SCRIPPS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4066 TTCCAAATGGCCCACTT 4082
                                                                                                                                                                                                                                                       sequence-tagged site; primer; EDA; anhidrotic ectodermal dysplasia;
t artificial chromosome; Homo sapiens; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NF-kB mRNA is prevented
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MI,
                                                                                                                                                                                                                                                                                                  STS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             to suppress NF-kB dependent processes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kitajima
                                                                                                                                                                                                                                                                                                associated with EDA gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              93US-00110161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94WO-US009350
                                                                                                      93US-00052997
                                                                                                                                    93US-00052997.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; 2 C; 9 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                            Kere J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                         19
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                                                                                                                                                                                                                                                                                                                                                                                        ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                              Schlessinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in individuals,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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Cloning vector contg. the human anhydrotic ecto-dermal dysplasia gene for diagnosis of EDA related diseases.
                                                                                      Claim 5; Col 28; 19pp; English.
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artificial chromosome (YAC) clones from the region using RFLP markers and new unique markers. AAT46079-92 are primers for sequence-tagged sites associated with the anhidrotic ectodermal dysplasia (EDA) gene. AAT46083-92 are associated with new markers labelled sWXD632, sWXD178, sWXD634, hypoplasia of hair, teeth and sweat glands. The EDA gene has been mapped to Xq12-q13 by genetic linkage analysis using restriction fragment length polymorphisms (RFLP) markers. Translocation breakpoints were also used to golymorphisms (RFLP) markers as well as the recovery of yeast sWXD635 and sWXD636 an X-chromosomal recessive disorder linked with the absence or

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Sequence 19 BP; 4 A; 10 C; 0
G; 5 T; 0 U; 0 Other;
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Query Match
Best Local Similarity
Matches 16; Conserv
 Conservative
         0.3%;
 0,
          Score 15.4; DB 1; Pred. No. 8.7e+02;
   Mismatches
                    Length
   Indels
                     19
   0
 Gaps
   0
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밁
               S
               339
N
TTTCCTACCACTCCACC 18
               TTTCCTACCACTCCCCC 355
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AAV01290 standard; DNA; 19
                               AAV01290;
23-MAR-1998
(first entry)
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Transthyretin PCR primer for universal mammalian

PCR primer; polymerase chain reaction; amplification; UM-STS; universal mammalian sequence tagged site; genomic map; clone; 88.

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WO9731012-A1
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(SWIND) 22-FEB-1996; 18-FEB-1997; 28-AUG-1997 UNIV MICHIGAN STATE. 96US-0012061P 97WO-US002403.

cross-species comparisons. New oligonucleotide primers amplifying gene regions conserved among mammals - useful for developing genomic maps, isolating clones and and making

WPI; 1997-435083/40. Brewer GJ, Venta PJ,

Yuzbasiyan-Gurkan

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Claim 1; Page 11; 26pp; English.
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RESULT 712
AAVO1290/c
ID AAVO12
XX AAVO12
XX AAVO12
XX PCR pr
KW PCR pr
KW Univer
XX Synthe
PN WO9731
XX (UNMI
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XX (UNMS The present sequence represents a specifically claimed oligonucleotide PCR primer. The oligonucleotide can be used for polymerase chain reaction (PCR) amplification of DNA, specifically regions of specific genes that are conserved among mammalian species, i.e. pairs of oligonucleotides from the present specification represent universal mammalian sequence-tagged site (UM-STS) primers. The primers are used to develop genomic maps, to isolate clones from libraries, to make cross-species comparisons comparisons and to develop ç be made between more species additional genetic markers. UM-STS allow genomic

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RESULT 713
AAT63656/c
ID AAT636
XX AAT636
XX AAT636
XX AAT636
XX O1igo
XX O1igo
XX AAT188
XX JP0905
XX JP0901
XX O1igon
XX AAT1-1
PT tax gi
CC Oligon
RESULT 714
AAV05874
ID AAV058
XX
AC AAV058
XX
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                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oligonucleotides having a partial sequence consisting of at least 15 bases of AATG3641 (an antisense oligo complementary to a region of the tax gene which can inhibit human T-cell lymphotropic virus type 1 (HTIV-1) viral antigen expression) are claimed. In an example, six antisense oligos were designed, T1-T6 (AATG3650-55) and were compared to six oligos derived from other regions of HTLV-1, i.e. SJI (splice junction), P1 (p21), R1 (rex), RR1 (rex response element), E1 (env) and G1 (gag), four reference oligonucleotides TIS (tax-sense), HC (dC20), HT (dT20) (AATG3647-49) and a random 20mer (RAN) in a HTLV-1 virus antigen expression inhibiting test. Oligonucleotide T1 gave the best results. The present sequence is an oligonucleotide disclosed in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anti-HTLV-1 anti-sense oligo:nucleotide - is complementary to region of tax gene from human T-cell lymphotropic virus type 1 and inhibits viral antigen expression.
                               AAV05874
                                                                                  AAV05874 standard; DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 5 A; 2 C; 9 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antisense; complementary; tax gene; inhibit; HTLV-1;
human T-cell lymphotropic virus type 1; viral antigen expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oligo disclosed in patent about Anti-HTLV antisense therapy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure, Page 9; 10pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1997-197252/18
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                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                 Conservative
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RESULT 715
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                                                                                                                                                                                                                                                                                                                                                                                                                     Primers AAV05858-V05879 were used to PCR amplify sequence tagged sites (STS's) in the search for the sequence encoding the human anhidrotic ectodermal dysplasia (EDA) gene (AAV05851). This primer is used to amplify the STS at locus DXS339. The amplified fragments can be used as probes for isolating the EDA gene. The EDA gene has been mapped to the region Xq12-q13 by genetic linkage analysis and has been shown to contain a 200 kb intron inserted in the 3' end of the coding sequence.

Deficiencies in the gene are observed by translocations with a breakpoint in the transcribed CpG island 3 at the Xq12-q13 locus. The EDA gene can be used to study the dynamics of EDA gene expression during foetal development, and processes affecting normal hair growth in adults. The EDA gene can also be used to study hair, sweat gland and tooth formation and growth, and ectodermal dysplasias
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; anhidrotic ectodermal dysplasia; X chromosome; genetic linkage; translocation; CpG island; foetal development; hair; sweat gland; ss; tooth; primer; PCR; amplification; sequence tagged site; STS.
                                                                                 Biallelic marker; human; high density disequilibrium map; disease; trait; identification; Alzheimer's disease; drug response; drug efficacy;
                                                                                                                          Human genome biallelic marker primer 220
                                                                                                                                                      30-JUN-1999
                                                                                                                                                                                                              AAX52863 standard;
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19 BP; 4 A; 10 C; 0 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human anhidrotic ectodermal dysplasia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-APR-1993;
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                                                                   drug toxicity;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hair growth.
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                                                                                                                                                                                                                                                                                                              339 TTTCCTACCACTCCCCC 355
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                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                      (first entry)
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                                                                   primer;
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Pred. No. 8.
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8.7e+02;
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WO9904038-A2

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RESULT 716
AAA86302/c
ID AAA863
XX AAA863
XX O4-DEC
XX PCBA H
XX Ribozy
XX Ribozy
XX Mammal
XX MO2000
XX MO2000
XX O6-DEC
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XX O4-DEC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       constructing a high density equilibrium map of the human genome. The method involves (a) obtaining a nucleic acid library comprising genomic DNA fragments comprising the full genome or a portion (b) determining the order of genomic DNA fragments in the genome, (c) determining the sequence of selected regions of the genomic DNA fragments and (d) identifying nucleotides in the genomic DNA fragments which vary between individuals, thereby defining a set of biallelic markers. The methods can be used for identifying traits such as disease (e.g. Alzheimer's disease), drug response, drug efficacy and drug toxicity. They can be used for selecting an individual for inclusion in a clinical trial. The method is used to map the position of genes in a genome (preferably the human genome). The sequences described in AAX52633-X52832 and AAX52844-X52868 represent primers used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis;
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21-APR-1998;
                                                                                                                                                            04-DEC-1998;
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                                                                                                 (IMMU-) IMMUSOL INC.
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                                   Welch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97EP-00401740.
98US-0082614P.
                                                                                                                                                            98US-0110954P
                                                                                                                                                                                                                          99WO-US028772
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בַּי
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
                                   Barber JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tchoumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4; DB 1; Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                   Robbins JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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RESULT 717
AAH6144/C
ID AAH614
XX AAH614
XX AAH614
XX AAH614
XX PCNA H
XX Human;
KW recogn
KW recogn
KW artips
KW artips
KW antips
KW antips
KW antips
KW antips
KW antips
KW antips
KW Bickle
XX WO2001
XX O3-MA1
XX PPF 26-OC7
XX (IMMU
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme; recognition site; target; ribozyme binding site; eye disease; walnerary; proliferative disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP; matrix metalloproteinase; growth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antististkling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actinic keratosis; squamous cell carcinoma;
                                                                                                                             Treating proliferative skin or eye diseases and scarring, using ribo that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent kinases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to a hairpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase other than cell-cycle dependent kinases CDKI, PCNA and Cyclin B1. Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonuclease activity and hence is efficient in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH61464;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 19 BP; 5 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 105; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New hairpin and hammerhead ribozyme for inhibiting restenosis, cleave RNA encoding a cyclin or cell-cycle dependent kinase other than CDKI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-412314/35
                                                                                                                                                                                                                                                                  WPI; 2001-300427/31.
                                                                                                                                                                                                                                                                                                                              Robbins JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-OCT-2000; 2000WO-US029500.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200130362-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCNA HH ribozyme binding site SEQ ID NO:3888.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH61464 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             restenosis treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCNA and Cyclin B1.
                                                                                                                                                                                                                                                                                                                                                                                             (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  łomo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2328 CACCTTCTTGAAGATGG 2344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cell carcinoma; seborrheic wart; vitreoretinopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CACCTTCTTGAGGATGG
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                                                                                                                                                                                                                                                                                                                                 Tritz R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0161532P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4;
. 8.7e+02;
1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 19;
                                                                                                                                                                                                      using ribozymes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cleaves
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ij
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Example 1; Page 354; 408pp; English.

describes a method

for

treating a proliferative

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RESULT 718
ADG3560
ID 35660
ID 35660
XX ADG356
XX ADG356
XX ADG356
XX SANA in KW Short
KW C109
C SO Synthe
OS S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cribayme (I) which cleaves RNA encoding a cytckine involved in the matrix metalloproteinase (MMP), cyclin, cell-cycle cdependent kinase, growth factor or a reductase, or administering a cucleic acid molecule (II) comprising a promoter operably linked to a nucleic acid molecule (II) comprising a promoter operably linked to a compression of the compression of the comprision of the comprision of the compression 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                      06-JUN-2002;
23-JUL-2002;
21-AUG-2002;
29-AUG-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-FEB-2002;
11-MAR-2002;
22-APR-2002;
29-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        short hairpin RNĀ; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; HIV; anti-HIV; HIV replication inhibition; HIV infection; 88; target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HIV siNA oligonucleotide SEQ ID NO:503.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADG35660 standard; RNA; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2328 CACCTTCTTGAAGATGG 2344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      immunodeficiency virus 1.
                                                                                                                                           SIRNA THERAPEUTICS INC. MCSWIGGEN J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    eye disease and scarring. The method involves administering a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CACCITCITGAGGATGG 3
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2002US-0374722P.
2002US-0157580.
2002US-0386782P.
2002US-0398036P.
2002US-00225023.
2002US-0406784P.
2002US-0406784P.
2002US-040873P.
2002US-040923P.
2003US-0440129P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 5 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2002US-0358580P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2003WO-US005190.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of HIV gene by RNA interference. The siNAs may or CC may not comprise ribonucleotides and may be double or single stranded. CC They further comprise sense and antisense regions, or alternatively are CC assembled from a sense oligonucleotide and an antisense oligonucleotide. CC specifically, the siNAs include short interfering RNA (siRNA), double-CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs CC can be unmodified or chemically modified, can contain CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes CC for the in vitro are that express siNA. The siNAs are used to modulate CC expression of the HIV gene in cells, tissue explants or organisms (e.g., CC by ex vivo gene therapy), or in grafts and transplants for the treatment CC used for inhibiting replications of HIV and may be used to treat HIV CC infection. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, CC single nucleotide polymorphisms). The present sequence represents the CC upper strand of HIV-targeted double-stranded siNA, which is identical to the HIV transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New double-stranded short interfering nucleic acid, useful for treating infection with human immune deficiency virus, comprises sugar-modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3; SEQ ID NO 503; 170pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pyrimidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003-679850/64.
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맑
              S
                               Query Match
Best Local S
Matches 16
                                        Local Similarity
         1261 AGCCTACAGCCCCACCA 1277
                               16;
N
AGCCAACAGCCCCACCA 18
                               Conservative
                                       0.3%;
94.1%;
                               ..
                                       Score 15.4;
Pred. No. 8.
                                 Mismatches
                                       8.7e+02
                                                 DB 1;
                                               Length 19;
                                 Indels
                                0
                               Gaps
                                 0
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Sequence 19

BP; 6 A; 9 C; 4 G; 0 T; 0 U; 0 Other;

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HIV siNA oligonucleotide SEQ ID
                                26-FEB-2004
                                                                                                ADG36398 standard; RNA; 19
                                (first entry)
                                                                                                 먪
 NO:1241.
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RESULT 719
ADG36398/c
ID ADG363
XX ADG363
XX ADG363
XX ADG363
XX ADG363
XX RNA in
KW RNA in
KW Short
KW Short
KW Short
KW HIV re
XX PARMA
XX HIV re
XX PARMA
XX PARMA 20-FEB-2002; 11-MAR-2002; 12-APR-2002; 22-APR-2002; 29-MAY-2002; 06-JUN-2002; RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; short hairpin RNA; shRNA; expression modulation; genetication; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; HIV; a HIV replication inhibition; HIV infection; ss. 20-FEB-2003; 2003WO-US005190 28-AUG-2003 WO2003070193-A2 Human Synthetic. immunodeficiency virus ; 2002US-0358580P. ; 2002US-0363124P. ; 2002US-0374722P. ; 2002US-00157580. analysis; gene mapping; HIV; anti-HIV; infection; ss.

Mcswiggen J,

Beigelman L,

Macejak

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RESULT 720
ADJ66971/c
ID ADJ669
XX ADJ669
XX ADJ669
XX ADJ669
XX ADJ669
XX RET ol
XX RET ol
XX RET ge
KW RET ge
KW multip
XX Uniden
XX JP2003
XX JP2003
PD 30-MAY
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC may not comprise ribonuclectides and may be double or single stranded.

CC They further comprise sense and antisense regions, or alternatively are casembled from a sense oligonucleotide and an antisense oligonucleotide. CC Specifically, the sinks include short interfering RNA (sirNA), double-comprise sense oligonucleotide and an antisense oligonucleotide. CC Specifically, the sinks include short interfering RNA (sirNA), double-comprise to the sirNA (miRNA) and short hairpin RNA (shrNA). The sinks CC can be unmodified or chemically modified, can contain CC deoxyribonucleotides, and can be chemically synthesised, expressed from a CC vector or enzymatically synthesised. The invention also relates to kits CC for the in vitro or in vivo delivery of sink, conjugates and/or complexes CC fishA; and vectors that express sink. The sinks are used to modulate cof sink, and vectors that express sink. The sinks or organisms (e.g., CC by ex vivo gene therapy), or in graffs and transplants or organisms (e.g., CC used for inhibiting replication of HIV and may be used to treat HIV CC infection. The sinks are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, CC single nucleotide polymorphisms). The present sequence represents the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 16
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21-AUG-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
                                                       JP2003156492-A
                                                                                          Unidentified
                                                                                                                                                                                                                                                                                                        ADJ66971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19 BP; 0 A; 4 C; 9 G; 0 T; 6 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to short interfering nucleic acids (siNA) which downregulate expression of HIV gene by RNA interference. The siNAs may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 3; SEQ ID NO 1241; 170pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pyrimidine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New double-stranded short interfering nucleic acid, useful for treating infection with human immune deficiency virus, comprises sugar-modified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JAN-2003;
                                                                                                                            multiple internal
                                                                                                                                                                                                RET oligonucleotide microchip-related oligonucleotide SeqID74.
                                                                                                                                                               RBT oligonucleotide microchip; mis-sense mutation; mutation hot spot;
                                                                                                                                              gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                  1261 AGCCTACAGCCCCACCA 1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2003-679850/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             strand
                                                                                                                                                                                                                                                                                                                                                                                                   18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SIRNA THERAPEUTICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MCSWIGGEN
                                                                                                                                                                                                                                                                                                           standard;
                                                                                                                                          immobilised; automatic microarrayer; hereditary cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; 2002US-0398036P.
; 2002US-00225023.
; 2002US-0406784P.
; 2002US-0408378P.
; 2002US-0409293P.
; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of an HIV-targeted double-stranded siNA.
                                                                                                                                                                                                                                     (first
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                                                                                                                             secretion
                                                                                                                                                                                                                                                                                                        DNA;
                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                   N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0,
                                                                                                                             adenomatosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Macejak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 15.4; Dв т,
No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D,
                                                                                                                            type 2 syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Length 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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(first entry)

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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                This invention relates to a novel RET oligonucleotide microchip which contains an oligonucleotide that can identify mis-sense mutation of a mutation hot spot in a RET gene, immobilised to the surface of a solid substrate by automatic microarrayer. The RET oligonucleotide microchip is useful for identifying mis-sense mutations in a RET gene, and thus for diagnosing hereditary cancers, where the RET gene is a causative gene of multiple internal secretion adenomatosis type 2 syndromes. The RET oligonucleotide chip enables diagnosis of hereditary cancers accurately and economically. The present sequence is that of an oligonucleotide which is related to the RET oligonucleotide microchip of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RET oligonucleotide microchip contains oligonucleotide that can identify missense mutation of mutation hot spot in a RET gene, immobilized to surface of solid substrate by automatic microarrayer.
                                                                                                                                                                                                                                                                                 Sequence 19 BP; 5 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-NOV-2001; 2001KR-00071774.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID NO 74; 25pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-APR-2002; 2002JP-00117713.
ADL69619;
                                     ADL69619 standard; RNA; 19
                                                                                                                                                                   1771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2003-692502/66.
                                                                                                                                 81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAT CANCER CENT
                                                                                                                                 TGGGTCTTCCAGGAGCC
                                                                                                                                                       TGGGTCTTGCAGGAGCC 1787
                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                          94.1%;
                                                                                                                                                                                                                                             0.3%;
                                     ВÞ
                                                                                                                                                                                                        0,
                                                                                                                                                                                                                            Score 15.4; DB Pred. No. 8.7e+(
                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                          8.7e+02
                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                           Length 19;
                                                                                                                                                                                                        0;
                                                                                                                                                                                                        Gaps
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0;

ADL69619
ID ADL6961
XX ADL6961
AC ADL696
XX ZO-MAY
XX ZO-MAY
XX ZO-MAY
XX RNA ir
KW RNA ir
KW Short
KW JO-Dili
XX ZO-MAY
XX ZO-PEE
PR 11-MAI
PR 15-JAI
XX ZO-SEI
PR 11-SEI
PR 11-SEI
PR 11-SEI
PR 11-SEI
PR 11-SEI
PR 11-JAI
XX (RIBO 20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
05-SEP-2002; 2002US-0408378P.
09-SEP-2002; 2002US-0409393P.
11-SEP-2002; 2002US-0409785P.
11-SEP-2003; 2003US-0440129P. RNA interference; short interfering nucleic acid; siNA; short interfering RNA; siRNA; double-stranded RNA; micro-RNA; m short hairpin RNA; shRNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification; pharmacogenomics; gene function analysis; gene mapping; cancer; restenosis; cytostatic; vasotropic; human; 18-FEB-2003; 2003WO-US004738. WO2003070896-A2 proliferating Human PCNA siNA lower strand, sapiens RIBOZYME cell PHARM INC nuclear antigen; PCNA; 88. SEQ ID NO:78. micro-RNA; miRNA;

August . The Kil

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RESULT 722
ADL69550/c
ID ADL695
XX
AC ADL695
XX
DT 20-MAY
XX
DT 20-MAY
XX
Human
XX
RNA in
KW RNA in
KW Short
KW Short
KW Short
KW Short
KW PASTMA
EN COOL
XX
IN COOL

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human proliferating cell nuclear antigen CC (PCNA) gene by RNA interference. The siNAs may or may not comprise CC ribonucleotides and may be double or single stranded. They further CC comprise sense and antisense regions, or alternatively are assembled from CC a sense oligonucleotide and an antisense oligonucleotide. Specifically, CC micro-RNA (miRNA) and short interfering RNA (siRNA), double-stranded RNA, CC micro-RNA (miRNA) and short hairpin RNA (shRNA). The sINAs can be CC unmodified or chemically synthesised, expressed from a vector or enzymatically CC synthesised. The invention also relates to kits for the in vitro or in CC vivo delivery of siNA, conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modilate expression of the PCNA CC gene in cells, tissue explants or organisms (e.g., by ex vivo gene CC conditions. They may be used for treating cancer and restences of twictions. They may be used for treating cancer and restences. The CC siNAs are also useful for drug screening, diagnosis, therapeutic target CC identification and validation, genetic engineering, pharmacogenomics, CC studying gene function, and gene mapping (e.g., of single nucleotide CC polymorphisms). The present sequence represents the lower strand of a human PCNA-targeted double-stranded siNA.
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Best Local S
Matches 11
   20-FEB-2002; 2002US-0358580P.
11-MAR-2002; 2002US-0363124P.
06-JUN-2002; 2002US-0386782P.
29-AUG-2002; 2002US-0406784P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RNA interference; short interfering nucleic acid; siNA; short interfering RNA; double-stranded RNA; micro-RNA; miRNA; short interfering RNA; shRNA; deuble-stranded RNA; micro-RNA; miRNA; shrNA; expression modulation; gene therapy; drug screening; diagnosis; therapeutic target identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           pharmacogenomics; gene function analysis; gene mapping; cancer;
restenosis; cytostatic; vasotropic; human;
proliferating cell nuclear antigen; PCNA; target sequence; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human PCNA transcript target sequence/siNA upper strand, SEQ ID NO:9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 BP; 4 A; 4 C; 6 G; 0 T; 5 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New short interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer and restenosis, downregulates expression of the
                                                                                                                                                                                                                                                                                                                        WO2003070896-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADL69550;
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                                                                                                                                                                              18-FEB-2003; 2003WO-US004738
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mcswiggen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2328 CACCTTCTTGAAGATGG 2344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003-712615/67.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 78; 134pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.4; DB 1; Length 19; Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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The invention relates to short interfering nucleic acids (siNA) which CC downregulate expression of the human proliferating cell nuclear antigen CPCNA) gene by RNA interference. The siNAs may or may not comprise comprise sense and may be double or single stranded. They further CC comprise sense and antisense regions, or alternatively are assembled from CC as sense oligonucleotide short interfering RNA (siRNA), double-stranded RNA, CC micro-RNA (miRNA) and short hairpin RNA (siRNA). The siNAs can be CC unmodified or chemically modified, can contain deoxyribonucleotides, and CC synthesised. The invention also relates to kits for the in vitro or in CC vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the PCNA CC gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for trasting cancer and restenosis. The CC siNAs are also useful for drug screening, diagnosis, therapeutic target (identification and validation, genetic engineering, pharmacogenomics, conjugates double-stranded siNA, which is identical to the PCNA conjugated double-stranded siNA, which is identical to the PCNA transcript traver sequence represents the upper strand of a conjugation to the pcna co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-8EP-2002; 2002US-0408378P.
09-8EP-2002; 2002US-0409293P.
11-8EP-2002; 2002US-0409785P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 3; SEQ ID NO 9; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  proliferating cell nuclear antigen gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New short interfering nucleic acid, useful e.g. for treatment and diagnosis of cancer and restenosis, downregulates expression of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-712615/67.
                                                         transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RIBO-) RIBOZYME PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chowrira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beigelman
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밁
                 S
                                         Best Loc
Matches
                                                  Query Match
Best Local :
                                                                                Sequence 19 BP; 5 A; 6 C; 4 G; 0 T; 4 U; 0 Other;
                    2328 CACCTTCTTGAAGATGG 2344
 19
                                        16;
                                                  Similarity
CACCTTCTTGAGGATGG 3
                                         Conservative
                                                  0.3%;
                                        0;
                                                  Score 15.4;
Pred. No. 8
                                                 4; DB 1; Length 19;
8.7e+02;
                                         Indels
                                         <u>.</u>
                                         Gaps
                                          0
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01-JUL-2004 (first entry)
                              ADN34160
                                                             ADN34160 standard; RNA; 19
                                                             ВÞ
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Upper strand of cyclin D1 targeted double stranded siNA #180

ADN34160/c
ID ADN34160/c
ID ADN3411
XX ADN3411
XX ADN341
XX O1-JUL
XX O1-JUL
XX Short
XX Short
XX Short
XX Short
XX Single
XX Geneti
XX Geneti short interfering nucleic acid; siNA; cyclin; Cytostatic; Vasotropic; cancer; cell-proliferation disorder; restenosis; drug screening; genetic engineering; pharmacogenomics; gene mapping; single nucleotide polymorphisms; ss. 06-FEB-2003; 2003WO-US003662. 04-SEP-2003. Homo sapiens

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RESULT 724
ADN3439
ID ADN343
XX ADN343
XX ADN343
XX IOWER
XX SHOWER
XX SHOWE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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Best Local S
Matches 16
20-FEB-2002;
11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
09-SEP-2002;
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11-MAR-2002;
06-JUN-2002;
29-AUG-2002;
05-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to a short interfering nucleic acid (siNA) that down regulates expression of at least one cyclin gene by RNA interference. SiNA are used to modulate expression of cyclin genes, in cells, tissue explants or organisms, e.g. for treating a wide range of cancers and other cell-proliferation disorders such as restenosis, but also for drug screening, diagnosis, target identification and validation; genetic engineering, pharmacogenomics, studying gene function and gene mapping (e.g. of single-nucleotide polymorphisms). The present sequence represents the upper strand of cyclin D1 targeted double stranded siNA which is identical to the cyclin D1 transcript target sequence.
                                                                                                                                                                                                                                                                                                                                                                                             short interfering nucleic acid; siNA; cyclin; Cytostatic; Vasotropic; cancer; cell-proliferation disorder; restenosis; drug screening; genetic engineering; pharmacogenomics; gene mapping; single nucleotide polymorphisms; ss.
                                                                                                                                                                                                                                                                                                WO2003072705-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADN34399;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADN34399 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3; SEQ ID NO 180; 144pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New short interfering nucleic acid, useful e.g. for treatment diagnosis of cancer and restenosis, down regulates expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     09-SEP-2002;
17-SEP-2002;
                                                                                                                                                                                          06-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lower strand
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                                                                                                                                                                                                                                                                                                                                                 sapiens
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; 2002US-0363124P.
; 2002US-0386782P.
; 2002US-0406784P.
; 2002US-0409293P.
; 2002US-0409293P.
; 2002US-0401275P.
; 2003US-0440129P.
; 2002US-0358580P.
; 2002US-0363124P.
; 2002US-0386742P.
; 2002US-0406784P.
; 2002US-0408378P.
; 2002US-0409293P.
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ilarity 94.1%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of cyclin D1 targeted double stranded siNA #180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mcswiggen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.4; D
Pred. No. 8.7e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.7e+02;
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RESULT 725
AAQ95360
ID AAQ953
XX AAQ953
XX AAQ953
XX AAQ953
XX Primer
XX Primer
XX Primer
XX Primer
XX Primer
XX Primer
XX Polymc
XX Pol
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Best Local S
Matches 15
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                                                                             Kit for automated genotyping contg. pairs of PCR primers - designe amplify polymorphic nucleotide repeat sequences, arranged in sets with a characteristic fluorescence label, useful e.g. in detection disease related genetic rearrangement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         primer; polymerase chain reaction; PCR; linkage study;
microsatellite marker sequence; automated genotyping;
polymorphism; detection; Homo sapiens; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 19 BP; 14 A; 2 C; 2 G; 0 T; 1 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-2002; 2002US-0411275P.
15-JAN-2003; 2003US-0440129P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Primer B (Group 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-FEB-1996
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                                                                                                                                                                                                                                                                               Levitt
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        present invention relates to a short interfering nucleic acid (down regulates expression of at least one cyclin gene by RNA rference. siNA are used to modulate expression of cyclin genes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2003-689983/65.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                  JOHNS HOPKINS
                                                                                                                                                                                                                                                                                                                                                                                        93US-00160837.
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Pred. No. 8.7e+02;
1; Mismatches 1
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                                                                                                               designed to in sets each letection of
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Claim 3;

Fig 7A-2; 104pp; English

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RESULT 726
AAT27911/c
ID AAT279
XX AAT279
XX AAT279
XX Detect
KW Detect
KW adapto
KW geneti
XX Synthe
XX Synthe
XX Synthe
XX Synthe
XX HOUPO
XX LOUPO
XX LOUPO
XX MOJ617
XX MOJ617
XX Detect
CC Micros
CC Mifel
CC Gifame
CC Gifam
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Best Local Similarity
Matches 16; Conserv
Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments. Ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods. to detect differences. The primers used in the amplification comprise a primer consisting of a perfect cpd. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor degment. The present sequence is an example of a SSR primer, which is flanked at its 5'-end by degenerate nucleotides. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The method aims to provide a collection of highly reproducible microsatellite marker sequences (MMS) at approx. 10-50 cM intervals throughout the human genome which can be detectably labelled. The MSS are polymorphic, simple sequence repeats and can be used in automated genotyping, esp. fluorescence-based. The primers correspond to the unique DNA sequence surrounding each marker, and PCR is used to detect each polymorphism. When the MSS show considerable polymorphism (ie. a difference in the number of repeats) between individuals, the markers can be particularly informative. The MSS can be ideal for linkage studies. Xits comprise at least 4 groups, of at least 3 sets, each comprising labelled primers for PCR amplification of the DNA. Group 1 primer pairs are shown in AAQ95327-68. The published size range of the IGP1 allele is 176-196 bp, and the degree of heterozygosity in the population is about
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified amplified fragment length polymorphism assay - polymorphism esp. in micro:satellite regions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite region; genetic trait marking; germplasm comparisons; 5'-anchored; 88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Morgante M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-NOV-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                              Page
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                                                                                                                                                                                                                                                                                                                                                                                                                              76; 173pp; English
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Pred. No. 8.7e+02;
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                                                                                   Query Match
Best Local (
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                                                                                                                                                                                                                                      Detecting polymorphisms between 2 nucleic acid samples, esp. in microsatellite regions, comprises digesting the nucleic acid to generate fragments, ligating adaptor segments to their ends, amplifying them using primer directed amplification and comparing the prods to detect differences. The primers used in the amplification comprise a primer consisting of a perfect pod. simple sequence repeat (SSR), and an adaptor directed primer, comprising a sequence complementary to an adaptor directed primer, comprising a sequence complementary to an adaptor directed primer, end by degenerate nucleotides. The method represents a modified amplified fragment length polymorphism assay, which is partic. useful for genome fingerprinting, i.e. for genetic trait marking and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detection; polymorphism; perfect compound simple sequence repeat; adaptor directed primer; genome; genetic; fingerprinting; amplified fragment length polymorphism assay; microsatellite regigenetic trait marking; germplasm comparisons; 5'-anchored; ss.
                                                                                                                                                                    Sequence
                                                                                                                                                                                                                   germplasm comparisons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified amplified fragment length polymorphism assay polymorphism esp. in micro:satellite regions.
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                                                                                                                                                                 BP; 8 A; 0 C; 9 G; 0 T; 0 U; 3 Other
                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         173pp; English.
                                                                                   0.3%;
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                                                                                   Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4; DB 1
Pred. No. 8.7e+02
                                                             Mismatches
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                                                                                                                  DB 1;
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                                                                                                            Length 20
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                                                             Gaps
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RESULT 728
AAT65799
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                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                              The invention relates to the isolation of polymorphic repeat sequences having the sequence (dC-dA)n. (dG-dT)n which can be used as genetic markers. Primers based on these sequences can be used to detect these repeats, especially for use in e.g paternity or maternity testing, human genetic analysis such as linkage analysis of genetic disease, commercial animal or plant breeding or pedigree analysis. Clones containing the repeat sequences were isolated by hybridisation of chromosome-specific phage libraries with a synthetic poly(dC-dA). (dG-dT) probe. Over 100 repeat blocks were isolated. The primers AAT65798-T66047 were used to PCR amplify the inserts from the isolated clones containing the repeat sequences. The primers AAT65798-9 were used to amplify the repeat sequences marker clone Mfd1 (AAT65797). (Updated on 25-MAR-2003 to correct
               Construction
                                                                    AAT97382;
                                                                                             AAT97382 standard;
                                                                                                                                                                                                                                                                         Sequence 20 BP; 6 A; 4 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detection of polymorphic genetic markers of the form (dC-dA)n(dG-dT)n using novel nucleic acid mols. as primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-APR-1989;
05-SEP-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US5582979-A.
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hybridisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polymorphism; repeat sequence; genetic marker; primer; amplification; PCR; polymerase chain reaction; paternity; maternity; human; pedigree; linkage analysis; genetic disease; animal; plant; breeding; locus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-MAR-2003
17-JUN-1997
                                         23-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1997-042299/04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-APR-1994;
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                                                                                                                                                                                           4764
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                                                                                                                                                                                        ACTCTGGGAGAAGGGCA 4780
                                                                                                                                                                ACTCTGGGAGAAGGGTA 20
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                                                                                                                                                                                                                      Conservative
              of a
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                                         (first entry)
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   chromosome;
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91US-00754351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       94US-00222177.
            GALV retroviral packaging plasmid using
                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                 0.3%;
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                                                                                                                                                                                                                                 Score 15.4; DB 1; Length Pred. No. 8.7e+02;
                                                                                                                                                                                                                      Mismatches
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              primer 2.
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                                                                                                                                                                                                                    Gaps
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AAT92764/c
ID AAT9277
XX AAT927
XX AAT927
XX D5-PEB
XX Primer
XX PCR pr
KW PCR pr
KW transg
KW Huntin
KW myelom
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC This primer is used in the construction of a retroviral packaging plasmid CC which contain genes encoding GALV gag/pol or envelope protein. The CC retroviral packaging plasmid is used for the production of high titres of CC recombinant retrovirus in human cells. The retroviral packaging plasmid CC comprises a retroviral helper DNA sequence derived from a replication-CC incompetent retroviral helper DNA sequence derived from a replication-CC encodes a ecotropic Moloney murine leukaemia virus (MMLV) or gibbon ape CC encodes a ecotropic Moloney murine leukaemia virus (MMLV) or gibbon ape CC ecotropic or polytropic envelope protein. The packaging plasmids, cc designated KAT plasmids, are used with a second retroviral vector CC encoding a foreign gene of interest to produce mammalian cells with CC retroviral supernatants that express, e.g. a hormone, lymphokine, growth CC stable cell lines that constitutively produce the retroviral proteins CC required in trans for the production of retrovirus particles: gag, pol CC and env. The stable producer cells continue to produce high titre CC retrovirus indefinitely in the absence of drug selection due to the continue integration of both packaging function and virus vector. The plasmids are constructed with sequences enabling the cepisomal persistence without the need for stable integration of the production of the produce o
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 16; Conserv
PCR primer; amplify; human gene; chimeric non-human animal; antibody; transgenic mouse; chromosome fragment; hybridoma production; microcell; Huntington's disease gene; pluripotent cell; interleukin-2 gene; myeloma cell; immunoglobulin; variable region; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               High efficiency retroviral packaging s cells, esp. haematopoietic stem cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
Gibbon ape leukemia virus
                                                                                                              Primer #1 for immunoglobulin kappa variable region Vkappa1-2
                                                                                                                                                          05-FEB-1998
                                                                                                                                                                                                      AAT92764;
                                                                                                                                                                                                                                                AAT92764 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 14; Page 92; 157pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-165307/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-AUG-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vector plasmid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CELL-) CELL GENESYS INC.
                                                                                                                                                                                                                                                                                                                                                                                               4821 CACCAGCCCTTGACCCT 4837
                                                                                                                                                                                                                                                                                                                                                              19
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                                                                                                                                                                                                                                                                                                                                                              CACCAGCCCATGACCCT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dull TJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BP; 2 A; 2 C; 11 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   95US-00517488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96WO-US013737.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The Env gene determines the host range
                                                                                                                                                                                                                                                  DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                          entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cooke K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Farson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               used to transduce human cells with foreign genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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RESULT 731
AAV49811
ID AAV498
XX AAV498
XC AAV498
XC AAV498
XX ACIV9
DE ADNF-I
XX ACIV9
KW ACTIV9
KW ACTIV9
KW SPINAI
KW N-metr
KW N-metr
KW N-metr
XX N-metr
XX N-metr
XX Synthe
OS Synthe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC AAT92758-T92817 represent amplification primers for human genes which are CC used in the chimeric non-human animal of the invention. The chimeric non-human animal of the invention. The chimeric non-cc human animal of the invention, preferably a mouse, contains a foreign chromosome(s) or chromosome fragment. The animal is produced by obtaining cd hybrid cell by fusion of a cell containing the foreign chromosome with ca cell having the ability to form microcells. The microcells are created, and fused with cells having differentiative pluripotency to form cells having differentiative pluripotency and containing the foreign chromosome. These cells are then introduced into an embryo, which is then contained and brought to term. The foreign for an antibody. The contained and brought to term. The foreign for an antibody. The contained and brought to term. The foreign for an antibody. The contained and preferably contains a region for an antibody. The contained as the interleukin-2 gene, and the Huntington's disease contained and the Huntington's disease conta
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Best Local S
Matches 16
                                                                Activity dependent neurotrophic factor III: ADNP-III; ADNP; cell death activity dependent neuroprotective protein; neurone; excito-toxicity; spinal cord, hippocampus; cerebral cortex; cholinergic; beta-amyloid; N-methyl-D-aspartate; Alzheimer's disease; human immunodeficiency vir HIV infection; PCR primer; ss.
                                                                                                                                                                                                                                             04-NOV-1998
    Synthetic.
Homo sapiens.
                                                                                                                                                                                                                                                                                        AAV49811;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chimeric animal containing foreign chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-AUG-1995;
15-FEB-1996;
                                                                                                                                                                                                  ADNF-III PCR primer #3.
                                                                                                                                                                                                                                                                                                                              AAV49811 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tomizuka K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-AUG-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (KIRI ) KIRIN BEER KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    865 GCAGTGCTAATGCCCTG 881
                                                                                                                                                                                                                                                                                                                                                                                                                                         20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene, e.g. an antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                         GCACTGCTAATGCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page 21; 142pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to produce the antibody)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                                                                                                             (first
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96JP-00027940.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; 4 C; 7
                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.4; DB 1;
Pred. No. 8.7e+02;
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0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1; Length 20;
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RESULT 732
AAV52761/c
ID AAV527
XX AAV527
XX AAV527
XX Immuno
XX Immuno
XX Immuno
XX Plurip
KW Plurip
KW Plurip
KW BB.
XX Synthe
OS Homo s
XX WO9837
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Best Local S
Matches 16
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                                                                             28-FEB-1997;
                                                                                                                           02-MAR-1998;
                                                                                                                                                                              03-SEP-1998
                                                                                                                                                                                                                                                                                                    Symthetic.
                                                                                                                                                                                                                                                                                                                                                                            Pluripotent cell; intrinsic gene; chimeric non-human animal; construction; human; antibiotic gene; cancer cell; embryonic
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunoglobulin kappa variable PCR primer Vk1-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAV52761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV52761 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 9 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 10; Page 5; 121pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Activity dependent neurotrophic factor III polypeptide - useful therapeutically to prevent neuronal cell death associated with e.g. HIV infection, excito-toxicity or Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1998-447239/38
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                                                                                                                                                                                                                            WO9837757-A1
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                              (KIRI ) KIRIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3305 ACCTGCAGCAGAACAAC 3321
                                                                                                                                                                                                                                                                        sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Brenneman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                               97JP-00062309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97US-0037404P
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                                                                                                                                98WO-JP000860.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            to isolate ADNF III polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                          gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 20;
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                                                                                                                                                                                                                                                                                                                                                                            embryonic;
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                                                                                                                                                                                                                                                                                                                                                                                 PCR primer;
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RESULT 733
AAX79722
ID AAX797
XX AAX797
XX AAX797
XX 17-AUG
XX PCR px
XX PCR px
XX PCR px
XX Adult
XX Synthe
OS Homo s
XX JP1111
XX Geneti
PT Geneti
PT Geneti
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes a method of obtaining pluripotent cells containing foreign chromosomes or their fragments (preferably at least 670 kb in length, especially more than 1000 kb) by preparing cancerous cells containing the foreign chromosomes or fragments, then fusing these with pluripotent cells such as embryonic stem cells, embryonic reproductive cells, embryonic cancer cells or their mutants. Also described are: (1) a method of obtaining hybridoma cells by fusing a cell with a high ability to produce hybridoma cells (such as mouse A9 cells) with a cell containing the foreign chromosomes or fragments (such as cell containing the foreign chromosomes or fragments (such as incell containing the foreign chromosomes or fragments (such as mice) which can express the foreign chromosomes or fragments introduced; and (3) chimeric animals, their offspring and tissues and cells derived from the offspring produced by a method as in (2). The inventions can be used for the production of monoclonal antibodies for medical use which are of human type and therefore not antigenic in humans. They can also be used in the production of chimeric and cells which express useful foreign proteins, or which can serve as models for the study of human diseases. AAV52755 to AAV52828 are PCR primers used in examples from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 16; Conserv
                                       Genetic diagnosis using human mitochondrial DNA -
                                                                                                                                                        13-OCT-1997;
                                                                                                                                                                                           13-OCT-1997;
                                                                                                                                                                                                                                27-APR-1999
                                                                                                                                                                                                                                                                   JP11113597-A
                                                                                                                                                                                                                                                                                                                           Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX79722;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX79722 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pluripotent cells containing foreign chro human chimeric animals constructed using genes such as human antibiotic genes.
                                                                              WPI; 1999-320841/27
                                                                                                                                                                                                                                                                                                                                                               PCR primer; human; mitochondrial DNA; genetic diagnosis; adult disease contraction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primer L5582 for mitochondrial DNA analysis.
                                                                                                                                                                                                                                                                                                      sapiens.
                       replacements.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                                   TANAKA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAGTGCTAATGCCCTG 881
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                        97JP-00279127
                                                                                                                                                                                           97JP-00279127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ₽P
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15.4; DB 1; Length 20; No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chromosomes or fragments - and non-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oshimura M,
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                                       comprises detecting
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                               AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX34584- AAX35879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae encoleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This sequence represents a PCR primer that can be used in the method of the invention. The method is for genetic diagnosis using human mitochondrial DNA where there is at least one base replacement from among the following five replacements: the 3010th base is changed from guanine to adenine; the 4883rd base from cytosine to thymine; the 5178th base from cytosine to adenine; the 8414th base from cytosine to thymine; and the 14688th base from cytosine to thymine. The method can be used for diagnosing the probability of contracting adult diseases. A confirmation of base replacement can give a diagnosis of the level of probability of
                                                                                                                                                                                                                                                                                                                                       Griffais R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 9 A; 5 C; 4 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                     Genome sequence of Chlamydia pneumoniae
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04-NOV-1998;
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                                                                                                                                                                                                                                     Page 1580; Disclosure;
                                                                                                                                                                                                                                                                                                        WPI; 1999-357842/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAX93323 standard;
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                                                                                                                                                                                                                                                                                                                                                                         (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3070 ACAGCTGAGGACTGCAA 3086
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98US-0107078P.
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Pred. No. 8.7e+02;
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                                                                 expression of the gene, and an effective synergistic amount of a protein ceffector of a product of the gene. Also described are: (1) a method for treating a disease responsive to inhibition of a gene in a mammal; (2) a comparising an antisense oligonucleotide which inhibits expression of the comprising an antisense oligonucleotide which inhibits expression of the comprising an antisense oligonucleotide which inhibits expression of the cand (4) a pharmaceutical composition comprising the inhibitor of (3). The cand (4) a pharmaceutical composition comprising the inhibitor of (3). The cand (4) a pharmaceutical composition are useful as analytical tools for transgenic studies and as therapeutic tools, e.g. as gene therapy tools for human compositions are useful as analytical tools for human confidence inhibitors and compositions of the invention that inhibit expression or activity of a gene or gene product may be used to treat contining, or predisposed to developing, a disease responsive to inhibition or activity of a gene or gene product may be used to treat contining on the gene. These may also be used to activate silenced genes to provide missing gene functions and improve a given condition.

CC physiological function of a gene product in an experimental cell culture or appression. ARAS5758 to ARAS5882 represent oligonucleotide sequences and in the procession of the provider in the procession of the provider of the 
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Inhibiting gene expression e.g. DNA methyltransferase, with a synergistic amount of antisense oligonucleotide effectors e.g. 5-aza-cytidine of gene products, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a gene in a cell comprising contacting the cell with an effective synergistic amount of an antisense oligonucleotide which inhibits
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page
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CC the present sequence is the sense PCR primer, that corresponds to 71-90 CC bases of mouse Activity Dependent Neurotrophic Pactor (ADNF) III cDNA, CC used for amplification of cDNA from human neuroblastoma. ADNF III is also CC called an Activity Dependent Neuroprotective Protein (ADNP) and is CC expressed in the astrocytes, brain and also in foetal lung and endocrine CC tissues. ADNF III has homology to ADNF I and hsp60, a heat shock protein CC end pIF1, a DNA repair protein. The ADNF III polypeptides are useful for CC ell death associated with 99120, the envelope protein from HIV, N-methyl CC ell death associated with 99120, the envelope protein from HIV, N-methyl CC entivity); and beta- amyloid peptide, a substance related to neuronal CC ellectrical and beta- amyloid peptide, a substance related to neuronal CC electrical in Alzheimer's disease. It is useful for the treatment of CC Huntington's disease, AIDS dementia complex, epilepsy, neuropathic pain CC entrochondrial abnormalities, Leber's disease, Wernicke's encephalopathy, CC mitochondrial abnormalities, Leber's disease, wernicke's encephalopathy, CC disease, Tourette's syndrome, oxidative stress induced neuronal death, CC Down's syndrome, developmental retardation and learning impairments, drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADNP; Activity Dependent Neuroprotective Protein; neuronal cell death; HIV; Human Immunodeficiency Virus; neurological deficiency; treatment; Alzheimer's disease; beta-amyloid peptide; Huntington's disease; epilepsy; AIDS dementia complex; neuropathic pain syndrome; ALS; amyotrophic lateral sclerosis; Parkinson's disease; Leber's disease; mitochondrial abnormality; Wernicke's encephalopathy; homocysteinuria; hyperprolinemia; sulphite oxide disease; Tourette's syndrome; nootropic; Down's syndrome; drug addiction; developmental retardation; antilipemic; learning impairment; anticonvulsant; neuroprotective; anti-HIV; ss.
                                                                                                                                                                                                                                                                                                                                                           Claim 10; Page 91; 136pp; English
                                                                                                                                                                                                                                                                                                                                                                                              preventing neuronal
                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid encoding an activity dependent neurotrophic factor III (ADNF III) useful in the treatment of neurological deficiencies and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2000-376491/32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gozes I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 866T-AON-90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          04-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sense PCR primer #2, to amplify ADNF III cDNA from human neuroblastoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD00754;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAD00754 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (USAS ) GOVERNMENT US REPRESENT AS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200027875-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Activity Dependent Neurotrophic Factor III; ADNF; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2640
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Brenneman
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB,
                                                                                                                                                                                                                                                                                                                                                                                                cell
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                                                                                                                                                                                                                                                                                                                                                                                                treatment death.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bassan M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.4; DB 1;
Pred. No. 8.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zamostiano
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer;
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RESULT 737
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ZI Tomizu
PI Kuroiw
XX WPI;
ZX Tomizu
PI Fooduc
PI Genera
XX WPI;
ZX Tomizu
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PI Genera
XX WPI;
ZX Tomizu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             á
                                                                                                            Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                              The invention relates to a novel method of producing cells containing a modified foreign chromosome or chromosome fragment. The method comprises:
(a) fusing a microcell comprising the foreign chromosome or chromosome fragment, with a cell having a high efficiency for homologous recombination; (b) marking the desired site of insertion of the foreign chromosome using a targeting vector; and (c) inducing deletion or translocation at the marked site. Transgenic animals produced by the method are useful to provide disease models and knockout animals, and in the production of human proteins, particularly human antibodies. This sequence is used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Producing a cell containing modified foreign chromosomes, useful for the generation of transgenic animals.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 9 A; 6 C; 2 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                              Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 55; 316pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2000-246479/21.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primer 1 for human immunoglobulin kappa variable region gene Vk1-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tomizuka K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-AUG-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (KIRI ) KIRIN BEER KK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               primer; human;
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                                    865 GCAGTGCTAATGCCCTG 881
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20 GCACTGCTAATGCCCTG 4
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                                                                                                                                                                                                                              BP; 5
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                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98JP-00236169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-JP004518.
                                                                                                                                                                                                                           A; 4 C; 7 G; 4 T; 0 U; 0 Other;
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                                                                                                                                          Score 15.4; DB 1; Length 20; Pred. No. 8.7e+02;
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Pred. No. 8.7e+02;
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                                                                                                                  Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
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RESULT 738 AAA80308/c

Sequence 20

BP; 6

A; 5 C;

5 G;

3 T;

0 U; 1 Other;

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chapterreactivity. The ASTHII and ASTHIJ genes are oriented in opposite of directions with the ASTHI locus, and have similar patterns of expression cand common sequence motifs. They are both expressed in trachea, lung and several other tissues. ASTHII and ASTHIJ are novel members of the ets of family of transcription factors, which have been implicated in the cativation of a variety of genes including the Toka gene and cytokine of genes known to be important in the actiology of asthma. Both ASTHII and ASTHII manuscripts has no effect on the open reading frame of ASTHII and caternative splicing of ASTHII transcripts results in 3 different ASTHII contrast, alternative splicing of ASTHII transcripts results in 3 different ASTHII concleic acids are useful as diagnostics to identifying ASTHI related genes, compositions that mimic or modulate so in a biological specimen, and for demonstrations in cell lines. The encoded ASTHI proteins are useful as for identifying ASTHI related genes, compositions that mimic or modulate activity or expression of ASTHII cand/or ASTHII genes or fragments thereof, encoded proteins, as the activity or astression of ASTHII cantibodies, in drug screening for compositions that mimic or modulate activity or expression of ASTHII cantibodies are useful in the identification of gene activity in vivo for prophylactic and therapeutic purposes. The intact ASTHII or ASTHII cand therapeutic purposes. The intact ASTHII or ASTHII conchinal hyperreactivity. Sequences AAA80260-A80261 and AAA80264-A80416 crepresent polymorphic sites within the ASTHII or ASTHII genes
ASTH1 protein, for e.g. screen or function of ASTH1 proteins predisposition to asthma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               bronchial hyperreactivity; numen; chromosome 11p; asthma; splice variant; genetic predispositiv; transcription factor; splice variant; genetic predisposition; polymorphism; antibody; drug screening; prophylaxis; therapy; diagnosis; single nucleotide columniant companies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the ASTH1 locus on the short arm of human chromosome (11p). This locus comprises the ASTH1I and ASTH1J genes, whare associated with a genetic predisposition to asthma and bronchial hyperreactivity. The ASTH1I and ASTH1J genes are oriented in opposite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New nucleic acids other than naturally occurring chromosomes ASTH1 protein, for e.g. screening compositions that modulate or function of ASTH1 proteins or as diagnostics for genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Galvin M, Mil
Brooks-Wilson
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01-JUL-1997;
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97US-0051432P.
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arey AH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cardon
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RESULT 740
AAF54869
ID AAF548
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AC AAF548
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AC AAF548
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DT 15-MAY
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Best Local S
Matches 16
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Best Local
                                                                                                                                                                                                                                            The sequences given in AAH43115-21 are oligonucleotides which are antisense to the histone deacetylase gene, HDAC-2. These oligonucleotides may be used in combination with an inhibitor of histone deacetylase enzyme function, to given an improved inhibitory effect, thereby reducing the amount of inhibitor required to obtain a given inhibitory effect. Compounds containing these oligonucleotides may be used to treat cell proliferation conditions such as cancer, restenosis or psoriasis. They can also be used to treat protozoal and fungal infections
                                                                                                                                                                                                                       Sequence 20 BP; 0
                                                                                                                                                                                                                                                                                                                                                                                 New inhibitors of histone deacetylase e.g. N-hydroxy-5-(4-(benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for treating cancer, restenosis or fungal infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-MAY-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cell proliferation; ca
fungal infections; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antisense; histone deacetylase; HDAC-1; cell proliferation; cancer; restenosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Antisense oligo, target HDAC-2 132-152.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAH43117 standard;
              15-MAY-2001
                                     AAF54889;
                                                             AAF54889 standard;
                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 40; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Delorme D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-NOV-1999;
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                                                                                                                                       2640 CCTGCAGCTGCTGC 2656
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                                                                                                                                                                                     Similarity
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              (first entry)
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                                                                                                                                                                                                                        A; 9 C; 5 G; 6 T; 0 U; 0 Other;
                                                             DNA,
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Pred. No. 8.7e+02;
1; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₽,
                                                                                                                                                                       Score 15.4; DB 1
Pred. No. 8.7e+02
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Thibault C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HDAC-2; HDAC-4; inhibitor; psoriasis; protozoal infection;
                                                                                                                                                                                              DB 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Abou-Khalil
                                                                                                                                                                                                Length 20
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RESULT 741
AAC89537
ID AAC895
XX
XX
AC AAC895
XX
XX
DT 08-WAF
XX
DE Human
XX
KW Histor
KW HDAC-1

AAC89537

AAC89537 standard; DNA,

20

BP

Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C; HDAC-D; cell cycle; tumourigenesis; cancer; inhibitor; antisense;

Human HDAC-2 PCR primer SEQ ID NO: 7.

(first

entry)

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3305 ACCTGCAGCAGAACAAC 3321

ACCTGCAGCAAAACAAC 17

Query Match Best Local S Matches 16

l Similarity 16; Conserv

0.3%; nilarity 94.1%; Conservative

0,

Score 15.4; DB 1; Pred. No. 8.7e+02; Mismatches

1;

Length Indels

20;

0

Gaps

0

Sequence

20

BP; 9

A; 6 C; 2 G; 3 T; 0 U; 0 Other;

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CC PCR primers AAF54889-90 were used to amplify human activity dependent consurorphic factor (ADNF) III cDNA. The primers are based on murine ADNF CI II. ADNF III is involved in prevention of neuronal cell death, and comparises contacting the specification describes a method for comprises contacting the cell with an ADNF III antisense collocuteotide. CC pathologically proliferating cell. The method for the method for inhibiting and detecting the growth of comprises contacting for inhibiting and detecting the growth of concer, collocating or malignant cells, e.g. breast cancer, current of concerphologically proliferating or malignant cells, e.g. breast cancer, collocating cancer, endometrial cancer, prostate cancer, collocating cancer, coesphageal cancer, pancreatic cancer or comparison cancer, colon cancer, coesphageal cancer, pancreatic cancer or cleukaemia. The method may also be used to inhibit and/or detect the crowth of benign proliferating cells, e.g. restenotic plaques in vascular smooth muscle (e.g. atheroselerosis or restenotic plaques in vascular cancer method may be used to inhibit the growth of cancer cells. The control may be used to inhibit the growth of cancer cells ex vivo or in collocation cancer cells in the control cancer cells in the canc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gozes I,
Bassan M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MUB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Inhibiting the growth of malignant or benign proliferating cells (e.g. breast cancer or psoriatic cells, respectively), by contacting the cells with an activity dependent neurotrophic factor III antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Activity dependent neurotrophic factor III; ADNF III; cancer; psoriasis; neuronal cell death; foetal alcohol syndrome; proliferating cell; restenotic plaque; atherosclerosis; restenosis; retinal hemangioblastoma; benign prostatic hyperplasia cell; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 1; Page 29; 57pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-159867/16.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (UYRA-)
(USSH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PCR primer for activity dependent neurotrophic factor
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gelber
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RESULT 742
AAC89546
ID AAC895
XX AAC895
XX DB-MAR
AC 08-MAR
XX Histon
KW HDAC-D
KW Gene t
XX Gene t
XX Gene C
XX Gene
CO GENE

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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides inhibitors of histone deacetylase enzymes such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These inhibitors may be antisense strands or the compounds identified by contacting the enzyme with the compound and measuring the resulting enzyme activity. These inhibitors are useful for treating cancers and for identifying which histone deacetylase is involved in a neoplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
HDAC-D; cell cycle; tumourigenesis; cancer; inhibitor; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 20 BP; 0 A; 9 C; 5 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene therapy;
                                                 WPI; 2001-016407/02
                                                                                                      Macleod
                                                                                                                                                                                                                                                         03-MAY-2000; 2000WO-IB001252
                                                                                                                                                                                                                                                                                                           30-NOV-2000.
                                                                                                                                                                                                                                                                                                                                                             WO200071703-A2
                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human HDAC-2 antisense sequence SEQ ID NO: 16.
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                                                                                                                                                        (METH-) METHYLGENE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapy;
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  oligonucleotide that inhibits expression of
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                                                                                                      Besterman
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Pred. No. 8
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RESULT 743
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Best Local S
Matches 15
                      The invention is directed to BAP28 polypeptides, BAP28 polynucleotide sequences and regulatory region located at the 3' and 5' ends of the BAP28 coding region. The BAP28 polypeptides can be expressed by standard recombinant methodology. BAP28 polynucleotides and polypeptides have been found to be over expressed in prostate tumour cells, therefore levels of BAP28 expression and/or activity may be assayed (e.g. by polymerase chain reaction (PCR)) to diagnose patient suffering from or susceptible to prostate cancer. Antibodies specific for the BAP28 polypeptides are useful as diagnostic reagents. Biallelic markers of the BAP28 gene are useful an genetic analysis. Sequences AAR83934-953 represent primers for the BAP28 gene and PCTA-1 gene (the coding strand of PCTA-1 gene is on the opposite of the coding strand of BAP28)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention provides inhibitors of histone deacetylase enzyme such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. Thee inhibitors may be antisense strands or they abe compounds identified by contacting the enzyme with the compound and measuring the resulting enzyme activity. These inhibitors are useful for treating cancers and identifying which histone deacetylase is involved in a neoplasia
                                                                                                                                                                                                                                                                        New BAP28 polynucleotides and polypeptides overexpressed in prostate cancer cells for diagnosing prostate tumors, e.g. by hybridization or polymerase chain reaction assays.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              deacetylase, useful for treating and/or alleviating the symptoms neoplasia, or for inhibiting neoplastic cell growth in an animal
                                                                                                                                                                                                                                                                                                                                                                        Barry C,
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                                                                                                                                                                                                                                                                                                                                           WPI; 2001-367032/38
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18-JAN-2000; 2000US-0176880P.
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Pred. No. 8.7e+02;
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RESULT 744
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ID AAD12482 standard; DNA; 20 BP
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Best Local Similarity
Matches 16; Conser
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      Cowsert LM;
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ilarity 94.1%;
Conservative
                   PHARM INC
                                            2000US-00487445
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e= "2'-methoxyethyl (2'-MOE) nucleotides"
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Pred. No. 8.7e+02;
0; Mismatches ]
                                                                                                                                                                                                                                                                                                                                                     compound ISIS
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RESULT 745
AB093238
AB093238
AC AB0932
AC AB09
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Microsatellite marker; wheat, D genome; mapping; genotyping; polymorphism; phenotypic trait; QTL; quantitative trait locu disease-associated gene; development factor; quality factor; resistance factor; wheat product; identification; detection; genetically modified wheat; PCR; primer; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to antisense compounds which inhibit the expression of human caspase 8. The antisense compound is useful for diagnosing an treating diseases associated with the expression of caspase 8 and for prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, and as a research reagent. The present sequence is an
                                                                                                                                                                                                                                                                                       Map of wheat D genome comprising the genome location of a microsatellite marker, useful for e.g. identifying genes responsible for a desired phenotypic trait, especially quantitative trait loci in wheat, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New antisense compounds capable of modulating expression of caspase the diagnoses, prophylaxis and treatment of diseases associated with expression of caspase 8, e.g. inflammation and tumor formation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bernard
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21-OCT-2002
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(first en
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The invention relates to a map of the bread wheat D genome comprising the genome location of a microsatellite marker selected from a group of 185 such markers (ABQ92733-ABQ92917). The invention also encompasses the use of left (ABQ92918-ABQ93102) and right (ABQ93103-ABQ93287) primers to amplify and detect the microsatellite markers, and to identify genes responsible for a phenotypic trait of interest in wheat. Wheat is an

Claim 4; Page 8; 105pp; English.

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RESULT 746
AAD34340
ID AAD343
XX AAD343
AC AAD343
AC AAD343
DT 16-JUL
XX Human
XX Human;
KW Human;
KW bone & W 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bone strength; mineralisation; ophthalmological; antidiabetic; bone density regulating transmembrane receptor; prosthetic device; surgical implant; diabetic retinopathy; hypertensive retinopathy; therapy; osteoporosis; prematurity; ocular vessel; eye disorder; osteopathic; PCR; primer; ss.
          18-AUG-2000;
22-SEP-2000;
                                                                                                                                                          17-AUG-2001; 2001WO-US041788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; bone strength and mineralisation regulatory protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human BSMR gene polymorphism detecting PCR primer, LRGEN9R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3423 GAGGCAGGAACTGAGGG 3439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 6 A; 2 C; 10 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
          2000US-0226119P
2000US-0234337P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BSMR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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RESULT 747
ABX64386/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 16
11-JUN-1993;
10-JUN-1994;
20-AUG-1997;
                                                                                                                                                                                                PCR; primer; ss; retroviral packaging plasmid; retrovirus; gene (gene therapy; replication-incompetent; replication-competent; helper virus; LTR; long terminal repeat; virus; psi; xenotropic; amphotropic; ecotropic; polytropic; envelope protein; haematopoistem cell; lymphocyte.
                                                                                                                                                     Gibbon Ape Leukemia Virus.
Synthetic.
                                                                                                                                                                                                                                                                                                                           07-AUG-2003
28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                          ABX64386;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 5; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Polynucleotide encoding bone strength and mineralization regulatory protein useful for diagnosis or therapy of osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Warman ML, Gong Y,
                                                            04-SEP-2001;
                                                                                                                                                                                                                                                                                           Retroviral packaging plasmid construction PCR primer,
                                                                                                                                                                                                                                                                                                                                                                                                       ABX64386 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-JUL-2001; 2001US-0304851P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (AVET ) AVENTIS PHARMA SA. (HARD ) HARVARD COLLEGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (UYCA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3422 TGAGGCAGGAACTGAGG 3438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UNIV CASE WESTERN RESERVE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGAGGCAGGAACAGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                              2001US-00944411.
                                                                                                                                                                                                                                                                                                                          (revised)
(first entry)
93US-00076299.
94US-00258152.
97US-00914893.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                       DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.4; D
Pred. No. 8.7e
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roman-Roman
                                                                                                                                                                                                                     protein; haematopoietic;
                                                                                                                                                                                                                                                                                                #41.
                                                                                                                                                                                                                                                              gene delivery;
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RESULT 748
ACC45221/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for producing virion proteins capable of packaging the replication-
conceptent retroviral vector at high titer, without production of a
replication-competent helper virus. The retroviral DNA sequence lacks the
region encoding the native enhancer and/or promoter of the viral 5 LTR
(long terminal repeat) of the virus and lacks both the psi function
sequence responsible for packaging helper genome and the 3 LTR, but
encodes a foreign enhancer and/or promoter functional in a selected
mammalian cell, and a foreign polytaopic envelope protein. The retroviral
camphotropic, ecotropic or polytropic envelope protein. The retroviral
packaging plasmid is useful for a high efficiency method to transduce
mammalian haematopoletic stem cells, or mammalian T and B lymphocytes,
for production of high titer viral supernatants and to transduce with high
efficiency cells that are refractory to transducer cells, for the rapid
efficiency cells that are refractory to transducer with high
methods. The sequences presented in ABX64346-ABX64353 and ABX64375-
ABX64392 are the PCR primers used in the construction of the retroviral
capackaging plasmids. (Updated on 07-AUG-2003 to correct OS field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (PINE/) PINER M H.
(DULL/) DULL T J.
(ZSEB/) ZSEBO K M.
(COOK/) COOKB K.
(FARS/) FARSON D A.
                                                                                                                  Human; cytostatic; nootropic; neuroprotective; antiinflammatory; antisense therapy; NAC; DEFCAP; hyperproliferative disease; apoptosis; death effector filament-forming CED4-like apoptosis protein; neurological disease; infection; inflammation; tumour formation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention discloses a retroviral packaging plasmid for producing recombinant retrovirus in human cells. Retrovirus vectors have become the primary tool for gene delivery in a pene therapy applications. The plasmid has a retroviral helper DNA sequence, derived from a replication-incompetent retroviral genome, encoding, in trans, all virion proteins required for packaging a replication-incompetent retroviral vector and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel retroviral packaging system useful for producing high-titers of recombinant retrovirus in human cells, comprises at least one retrovihelper DNA sequence derived from replication-incompetent retroviral
                                                                                                                                                                                                               Human NAC chimeric phosphorothioate oligonucleotide SEQ ID NO:81.
                                                                                                                                                                                                                                                        16-JUN-2003
                                                                                                                                                                                                                                                                                                                                    ACC45221 standard; DNA; 20
                                    Synthetic.
                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                           ACC45221;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 2 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 14; Page 27; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Finer MH,
                                                                                             phosphorothicate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-722693/78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4821 CACCAGCCCTTGACCCT 4837
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16;
                                                                                                                                                                                                                                                                                                                                                                                                                                 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                 CACCAGCCCATGACCCT 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                      (first entry)
Location/Qualifiers
                                                                                               88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 C; 11 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zsebo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 15.4; DB 1; Length 20; Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cooke K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Farson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         one retroviral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 749

ABT43248;

ABT43248 standard; DNA; 20

ВP

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The present invention describes a compound (I) 8-50 nucleobases in length CC targeted to a nucleic acid molecule encoding NAC, where the compound CC specifically hybridises with the mucleic acid molecule encoding NAC and C inhibits the expression of NAC. The compound specifically hybridises with CC at least an 8-nucleobase portion of an active site on a nucleic acid CC molecule encoding NAC. Also described: (I) a composition comprising (I) CC and a pharmaceutical carrier or diluent; (2) inhibiting the expression of CC NAC in cells or tissues comprising contacting the cells or tissues with (C); and (3) treating an animal having a disease or condition associated CC with NAC comprising administering (I) to the animal so that expression of CC NAC is inhibited. (I) has cytostatic, nootropic, neuroprotective and CC antisnflammatory activities, and can be used in antisense therapy. The CC antisense compounds (I) are useful for modulating the expression of NAC, CC and for treating a disease or condition associated with expression of CC useful as research reagents and kits, or for diagnostics, therapeutics CC and prophylaxis, e.g. to prevent or delay infection, inflammation or tumour formation. NAC is also known as a death effector filament-forming CC CED4-like apoptosis protein (DEPCAP). NAC is located on human chromosome CC ophosphorothioate antisense oligonucleotide, which is given in the CC exemplification of the present invention
                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 15; Page 76; 147pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New antisense compounds, useful for modulating the expression of NAC or for treating a disease or condition associated with the expression of NAC, e.g. hyperproliferative disease or neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-354583/33
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-SEP-2001; 2001US-00956712.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-SEP-2002; 2002WO-US029664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003024988-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ISIS-) ISIS PHARM INC.
                                                                                                                    Local Similarity
nes 16; Conserv
                                                      4303 AAGGAACTGGAGCTCTG 4319
17
AAGGAACTGGAGCTTTG 1
                                                                                                                                                                                                                                              BP; 4
                                                                                                                0.3%;
llarity 94.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Freier
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16. .20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /*tag=
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/note= "2'-O-methoxyethyl (2'-MOE) gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mod base=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mod_base= OTHER
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                                                                                                                                                                                                                                           A, 6 C; 5 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "2'-O-methoxyethyl (2'-MOE) gapmer"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ი
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                                                                                                                    0;
                                                                                                                                                 Score 15.4; DB 1; Length 20; Pred. No. 8.7e+02;
                                                                                                                       Mismatches
                                                                                                                          Indels
                                                                                                                    <u>;</u>
                                                                                                                    Gaps
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RESULT 750
ABT32419
ID ABT324
XX ABT324
XX Neurob
XX Neurob
XX Neurob
XX Neurob
XX Neurob
XX Uniden
XX Uni
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                30-MAY-2001; 2001JP-00162775.
24-AUG-2001; 2001JP-00255226.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nucleic acids isolated from neuroblastoma showing enhanced expression in human neuroblastoma with good prognosis, useful in clarifying good/poor prognosis of neuroblastoma and providing genetic data.
                                                                                                                                                              30-MAY-2002;
                                                                                                                                                                                                                                                                                                                       Unidentified.
                                                                                                                                                                                                                                                                                                                                                                    high malignancy.
                                                                                                                                                                                                                                                                                                                                                                                                                                               Neuroblastoma-related oligonucleotide #196.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABT32419 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention comprises DNA sequences that show enhanced expression in human neuroblastoma with good prognosis. The DNA sequences of the invention are useful in clarifying good/poor prognosis of neuroblastoma. The present DNA sequence was used in the exemplification of the invention.
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24-AUG-2001; 2001JP-00255260.
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                                                                                                                                                                                                                                                                 WO200297093-A1
                                                                                                                                                                                                                                                                                                                                                                                          Neuroblastoma; prognosis; spontaneous regression; primer; probe;
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; G protein-coupled receptor; hyperproliferative disorder; GPR37L1; endothelin type b receptor-like protein-2; cerebral vascular disease; antisense; endothelin-binding receptor-like protein-2; atherosclerosis; cardiovascular disease; ETBR-LP-2; G-protein coupled receptor 37 like 1; acute proliferative nephropathy; ETBR-like protein 2; cancer; stroke; angiogenesis; hypertension; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention comprises nucleic acids that show increased expression in human neuroblastomas with poor prognosis over those with a good prognosis. The nucleic acids of the invention are useful as a tool for distinguishing neuroblastomas with a favourable prognosis (spontaneous regression) from neuroblastomas with a poor prognosis (high malignancy). The DNA sequences ABT32224 - ABT32571 represent oligonucleotides used in an example of the invention
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                                                   06-DEC-2001; 2001US-00003126.
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Pred. No. 8.
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Best Local Similarity
The invention relates to screening for an oestrogen analogue, comprising administering a test compound to rodents, isolating hippocampus from rodents, monitoring for the expression level of a gene comprising mouse calmodulin I, chimaerin, neuromedin, T-Rec-alpha rel., 3B-HSD related protein, ATP-binding cass., chaperonin, HCNP, histone-like protein, unknown, ZW10, vitronectin or unknown encoding genes (SEQ ID NO 1-13) in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to antisense compounds targetted to the nucleic acid encoding the G protein-coupled receptor ETBR-LP-2 (endothelin type b receptor-like protein-2) to inhibit its expression. ETBR-LP-2 is also known as endothelin-binding receptor-like protein-2, ETBR-LIP-2 is also and G-protein coupled receptor 37 like 1 (GPR37L1). Antisense compounds of the invention are useful for treating hyperproliferative disorders (especially cancer) and cardiovascular diseases especially angiogenesis, atherosels, hypertension, cerebral vascular disease, stroke and acute proliferative nephropathy. The present sequence is an antisense oligonucleotide targetted to human ETBR-LP-2 DNA
                                                                                                                                                                                                                                                                                 Screening for estrogen analog, by administering test compound to rodents, isolating hippocampus, monitoring for the expression of a particular gene in hippocampus, and selecting compound that alters gene expression.
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                                                                                                                                                                                                                               Disclosure, Fig
                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-818084/77.
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Best Local !
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Caspase-8; cytostatic; immunosuppressant; anti-HIV; ss; antisense gene therapy; apoptosis; hyperproliferative disorder; haematopoietic disorder; autoimmune disorder; viral infection; A neurological disorder; Alzheimer's disease; Parkinson's disease; neurological disorder; Alzheimer's disease; Parkinson's disease; amyotrophic lateral sclerosis; retinitis pigmentosa; blood cell
                                                                                                                                            WPI; 2003-810793/76.
                                                                                                                                                                                                                                                                                                           19-JAN-2000; 2000US-00487445
11-JAN-2001; 2001WO-US000955
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COWSERT L M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mouse.
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No. 8.7e+02;
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New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding caspase 8, useful for treating a disease/condition associated with caspase 8, such as hyperproliferative or autoimmune

disorders.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                            Detecting a variant in a primer extension assay, useful for analyz molecular events for identifying mutations indicative of cancer, the contacting a target nucleic acid primer complementary to a region target nucleic acid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Variant detecting primer extension wild-type product oligo, SEQ ID 110
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                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-697649/66
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and which
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sporadic mutation; genotyping; pooled sample;
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No. 8.
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The invention relates to a novel method for detecting a variant primer extension assay, useful for analysing molecular events for

Claim 15; SEQ ID NO 913; 872pp; English

The invention relates to

a

novel pharmaceutical

composition, which has

Example

7;

SEQ ID NO 110; 54pp; English.

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RESULT 755
ABZ85671/C
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Detecting a variant in a primer extension assay comprises contacting a target nucleic acid primer complementary to a region of the target contacting a complementary to a region of the target nucleic acid, and extending the primer in the presence of a first nucleotide that is complementary to a first variant nucleotide suspected to be at a position downstream of the region and a second nucleotide that is complementary to a second variant nucleotide at the position, thus to reduce misincorporation of the first nucleotide at the position, thus to reduce misincorporation of the first nucleotide on a template comprising the second variant nucleotide. The methods are useful for analysing consecutar events for identifying individuals with mutations indicative of cancer. They are particularly useful in detecting a rare mutation in a heterogeneous biological sample (e.g., sporadic mutation in a heterogeneous patient sample), detecting rare genotypes in genotyping reactions; or detecting mutant or viral sequence variations in pooled patient samples). This polynucleotide sequence represents an oligo used as part of the primer extension assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local Similarity
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                                                                                                                                                   Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human oligonucleotide sequence
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                                                                                                                                                                                                                                                                                 WPI; 2003-229219/22.
                                                                                                                                                                                                                                                                                                                                              Miller
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                                                                                                                                                                                                                                                                                                                                                                                                                                        (EPIG-)
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Tang
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                                                                                                                                                                                                                                                                                                                                                                           Sandrasagra A,
                                                                                                                                                                                                                                                                                                                                                                                                                                        PHARM INC.
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Pred. No. 8.7e+02;
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RESULT 756
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Best Local S
Matches 16
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Miller S,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              31-OCT-2002.
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                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-229219/22.
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antisense gene therapy; respiratory; lung; adenosine sensitivity;
adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inflammation; respiratory
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                                                                                                                                                                                                                                                                                                                                                                                                                    Li Y,
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Shahabuddin
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Pred. No. 8.7e+02;
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Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

corresponding RNAs,

The invention relates to a novel pharmaceutical composition, which has

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Claim 15; SEQ

ID NO 1314; 872pp; English

invention relates to a novel pharmaceutical composition, which has

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Disclosure; SEQ ID NO 3824; 872pp; English

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RESULT 757
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                                                                                                                                                                                                                                                                                                                                                          Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; antisense; lung dysfunction; nasal airway dysfunction; antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic; antiastmatic; hypotensive; immunosuppressive; cytostatic; gene therapy; antisense gene therapy; respiratory; lung; adenosine sensitivity; adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
                                                                                                                                                          Pharmaceutical composition for treating ailments associated with impaired respiration, has oligo(s) antisense to specific gene(s) or its corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-APR-2002; 2002WO-US013135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
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                                                                                                                                                                                                                                                                                                 WPI; 2003-229219/22.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            (EPIG-) EPIGENESIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lung inflammation;
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                                                                                                                                                                                                                                                                                                                                                       Li Y, Sa
, Tang L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTGCCAGCCCAGCCT 3293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGTCCCAGCCCCAGCCT
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                                                                                                                                                                                                                                                                                                                                                              Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     respiratory
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Pred. No. 8.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                            Katz B,
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                                                                                                                                                                                                                                                                                                                                                                                                   Pabalan
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0

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RESULT 758
ABD21901/c
ID ABD219
XX ABD219
XX ABD219
XX ABD219
XX Human
DE Human
XX Human;
KW respir
KW emphys
KW emphys
KW emphys
KW emphys
KW pulmon
XX
Homo &
XX
PN W02002
XX
PN W02002
XX
PN W02002
XX
PN W11-0C7
XX
PN W23-APF
XX
PF 23-APF
XX
PF 23-APF
XX
PN W11-c
PF W11-c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antisethmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hypertension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                        Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-APR-2002; 2002WO-US013143.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (EPIG-)
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                                                                                                                                                                                                                                                                                                                                                           Li Y,
Tang
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                                                                                                                                                                                                                                                                                                                                                                   Sandrasagra A,
L, Shahabuddin
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Pred.
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No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                             Pabalan
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comprising oligonuclectides, effective for alleviating composition of a tright active agent, comprising oligonuclectides, effective for alleviating composition, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, controlled the sensitivity, levels of adenosine (A) or (A) receptors, controlled the sensitivity, levels of adenosine (A) or (A) receptors, controlled the sensitivity, levels of adenosine (A) or (A) receptors, controlled the sensitivity, levels of adenosine (A) or (A) receptors, controlled the sensitivity, levels of adenosine or regulating manual. The controlled the corresponding manual controlled the sensitivity of the controlled the corresponding manual controlled the sensitivity of the invention also describes a kit, that comprises (A) a delivery construction of the invention has antiallergic, antiantial controlled (C) instructions for adding a carrier and for use of the kit. The composition comprises of the invention of the composition of the tractivity, is a beta-adreneratic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligon and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The composition comprises oligon and is administered to reduce the production and/or bronchoconstriction and/or lung inflammation, allergies, asthma, impeded respiration, respiratory distance, allergies, asthma, impeded respiration, respiratory the production and controlled controlled the substance of the oligonucleotides into products that free adenosine into the system content of the anti-sense oligos corresponding to the product of the oligonucleotides into products that free adenosine into the system content and thereby, to prevent any unwanted effects due to it
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                                                                                                                                                                                                                                                                                                                                    5
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                        ABD24812 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20
AI092623-derived oligonucleotide SEQ ID 3824.
                                                   29-JUL-2004
                                                                                                       ABD24812
                                                                                                                                                                                                                                                                                                                                         5392 ТАЛАЛЛАТАСЛАЛЛА 5408
                                                                                                                                                                                                                                                                                           17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 3 A;
                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 C; 1 G; 14 T; 0 U; 0 Other;
                                                                                                                                                           ВÞ
                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                Indels
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pulmonary transplantation rejection; ss; primer.
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RESULT 759
ABD24812
ID ABD248
XX ABD248
XX ABD248
XX ABD248
XX AI0926
XX Human;
KW respir
KW surfac
KW analge
KW analge
KW pulmor
XX pulmor
XX Humon E
XX BUO200;
XX FR SALOCO
XX AAPI
XX 24-API
XX EBDIG-Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction; respiratory distress syndrome; allergic rhinitis; pulmonary hyportension; emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; 24-APR-2001; 2001US-0286036P 23-APR-2002; 2002WO-US013143 sapiens. PHARM INC

bronchodilating

agent. NO 913;

SEQ ID

763pp; English

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RESULT 760
ABD22302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention describes a novel composition (a) a first active agent, comprising oligonucleotides, effective for alleviating comprising oligonucleotides, effective for alleviating comprising oligonucleotides, respiratory tract inflammation, allergies and creducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, surfactant depletion or hyposecretion, when administered to a mammal. The oligonucleotides are derived from a gene encoding or regulating cexpression of a target polypeptide associated with lung airway or lung dysfunction or cancer and can be anti-sense to the corresponding mRNA.

Composition of a target polypeptide associated with lung airway or lung of the invention also describes a kit, that comprises: (a) a delivery device, in separate containers, (b) the oligonucleotides, (c) instructions for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, an allegsic, hypotensive, immunosuppressive and cytostatic activity, is a beta-adrenergic agonist. The composition is useful for preventing or treating a respiratory, lung or malignant disease. The administered composition comprises oligo and is administered to reduce the production or availability, or to increase the degradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The pulmonary obstruction, allergies and/or bronchoconstriction and/or lung pulmonary obstruction, allergies and/or bronchoconstriction and/or lung continuation, allergies, asthma, impeded respiration, respiratory hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary hypertension, pulmonary disease, pulmonary continuation and adenosine content of the anti-sense oligos corresponding to the the oligonucleotides into products that free adenosine into the bystem of the oligonucleotides into products that free adenosine into the bystem of the products defects due to it
         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
Human; antisense; bronchoconstriction; allergy; hyposecretion; pain; respiratory tract inflammation; adenosine sensitivity; lung; cancer; surfactant depletion; antiallergic; antiinflammatory; antiasthmatic; analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis; beta-adrenergic agonist; respiratory disease; pulmonary vasoconstrictio respiratory distress syndrome; allergic rhinitis; pulmonary hypertensio emphysema; chronic obstructive pulmonary disease; cancer; bronchitis; pulmonary transplantation rejection; ss; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                        Human stanniocalcin-derived oligo SEQ ID 1314.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                           ABD22302 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3277 AGTGCCAGCCCAGCCT 3293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     any unwanted
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTCCCAGCCCCAGCCT 20
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Tang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 3824; 763pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                       (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sandrasagra A,
L, Shahabuddin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 10 C; 5 G;
                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     effects due
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 8.7
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 T; 0 U; 0 Other;
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                                                                        pulmonary vasoconstriction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                 pulmonary hypertension,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aguilar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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RESULT 761
ADH08330/c
ID ADH083
XX
AC ADH083
XX

ADH08330 standard;

DNA;

20

ВP

ADH08330

밁 á

N

18

2646 GCTGCTGCTGCAGCCAC 2662

Query Match Best Local S Matches 16

Similarity

0.3%;

Score 15.4; Pred. No. 8. Mismatches

.7e+02

0,

Gaps

0

DB 1; Length 20;

Conservative

0;

Sequence 20

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CC composition of ligonucleotides, effective for alleviating composition, respiratory tract inflammation, allergies and cc reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors, cc surfactant depletion or hyposecretion, when administered to a mammal. The coligonucleotides are derived from a gene encoding or regulating cc expression of a target polypeptide associated with lung airway or lung cyperate of a target polypeptide associated with lung airway or lung construction or cancer and can be anti-sense to the corresponding mRNA. CC The invention has antiallergic, antiinflammatory, antiasthmatic, considered with invention for adding a carrier and for use of the kit. The composition of the invention has antiallergic, antiinflammatory, antiasthmatic, is a cc beta-adrenergic agonist. The composition is useful for preventing or cancer the administered composition comprises oligo and is administered to reduce the production con availability, or to increase the gradation of the target mRNA or to reduce the amount of target polypeptide present in the lungs. The cc pulmonary obstruction, and/or bronchoconstriction and/or lung conflammation, allergies and/or surfactant hypoproduction are associated with a disease or condition such as pulmonary vasconstriction are associated conflammation, allergies, asthma, impeded respiration, respiratory conflammation, emphysema, chronic obstructive pulmonary disease, pulmonary transplantation rejection, pulmonary infections, bronchitis or cancer. The reduced adenosine content of the anti-sense oligos corresponding to the oligonacleotides into products that free adenosine into the system ce.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to prevent any unwanted effects due to it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nyce JW,
Miller S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pharmaceutical composition for treating asthma, has antisense oligonucleotide containing less percentage of adenosine, targeted to nucleic acids associated with lung airway or lung dysfunction, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 15; SEQ ID NO 1314; 763pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-APR-2001; 2001US-0286036P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-APR-2002; 2002WO-US013143
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BPIGENESIS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Li Y,
Tang
BP; 1 A; 8 C; 6 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      describes a novel composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sandrasagra A,
L, Shahabuddin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pabalan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (a) a first active
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ARBSULT 762
ADH12202
ID ADH122
XX ADH122
XX ADH122
XX ADH122
XX Human
XX Human;
XW Chroma
XW Chroma
KW Gruenas
KW develo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a biochip (1) that comprises a support (2) the functional side of which has a working surface (3) with a network of elementary sites (Xn), with many ligands, different for each Xn, attached to them. The new feature is that Xn are distributed between: a central zone (4), designed for detection of at least one target species, with each site containing ligands for a particular target; and a peripheral zone (5), surrounding (4) and containing control sites, which optionally carry control ligands. The biochip is used for analysis in molecular biology. The specified arrangement of sites allows not only determination of many targets but also monitoring of the determination and of the operating conditions. The signals emitted from the chip are not affected by the geometrical environment of the chip, for any of the elementary sites. The current sequence represents a fragment of a mutant gene that is related to career.
                                                     Human; chromodomain helicase DNA-binding 5; CHD5; chromosome 1p36.3; chromatin structure; chromatin unwinding; DNA repair; DNA recombination; transcriptional regulation; gene expression; cell cycle control; development regulation; oncogenesis; brain; neural development; neural tissue neoplasia; diagnosis; cancer; neural cancer; neuroblastoma; breast cancer; colon cancer; liver tumour; germ cell tumour;
                                                                                                                                                                                     Human CHD5 PCR/sequencing primer,
                                                                                                                                                                                                                         11-MAR-2004 (first entry)
                                                                                                                                                                                                                                                                ADH12202;
                                                                                                                                                                                                                                                                                                  ADH12202 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20 BP; 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biochip, useful in molecular biology, comprises a central array of sites carrying analytical ligands and a peripheral region containing control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Biochip,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cuzin M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-MAY-2002; 2002FR-00007039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-MAY-2003; 2003WO-FR001574
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003100423-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Biochip; target; ligand; analysis; molecular biology;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  related to cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                 4737 GGAGACCCATCCTCACC 4753
                                      screening;
                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Page 17; 28pp; French.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mandrand B,
                                                                                                                                                                                                                                                                                                                                                                                             GGAGGCCCATCCTCACC 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fragment designated 248AS1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
                                      cytostatic; gene therapy; sequencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 4 C; 9 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                  В₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                     SEQ ID NO:24.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                    primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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CC (CHD5; ADH12180) and cDNA encoding it (ADH12179). CHD5 is a novel member CC (CHD5; ADH12180) and cDNA encoding it (ADH12179). CHD5 is a novel member CC chromatin structure and gene expression and which are thus likely to play CC an important role in cell cycle control, regulation of development, and CC concepts. CHD5 comprises two N-terminal zinc finger domains of the PHD CC (plant homeodomain) class, two chromodomains, a central region which CC contains a predicted DEAH-box-type helicase domain and a putative SNF2 CC domain, and several nuclear localisation signals. The gene encoding CHD5 CC is located on chromosome 1936.3, a region frequently deleted in a variety CC of cancers including neuroblastoma, and the protein is preferentially CC expressed in brain. CHD5 is therefore thought to be a modulator of normal neural development and neoplasias of neural tissue origin. The invention CC also relates to vectors and host cells comprising the CHD5 cDNA sequence; CC an antibody against CHD5; a method of screening for modulators of CHD5 cancer; treating cancer by administration of CHD5 protein, CHD5 encoding CC cancer; treating cancer by administration of CHD5 protein, CHD5-encoding CC cancer, CHD5 mimetics; and CHD5-specific PCR primers (ADH12186-CC protein, CHD5 mucleic acids of sindicates the presence of cc cancer, CHD5 mucleic acids and anti-CHD5 expecific PCR primers (ADH12186-CC protein, CHD5 mucleic acids and anti-CHD5 antibodies are useful as comparation. Sequences ADH12186-ADH12247 represent specifically claimed CC chuman CHD5 PCR primers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2003106650-A2
                                         regulation. Sec
human CHD5 PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   diagnostic and prognostic indicator of tumor, comprises amino t
having two PHD class zinc finger domains and two chromodomains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel chromodomain helicase DNA-binding (CHD) proteins, useful as diagnostic and prognostic indicator of tumor, comprises amino terminus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-082186/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Brodeur GM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHIL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-JUN-2002; 2002US-0388848P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-JUN-2003; 2003WO-US019027.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHILDRENS HOSPITAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 24; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       White PS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PHILADELPHIA
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Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

8 Query Match Best Local Matches 3313 CAGAACAACCTGGATGA 3329 16; Similarity Conservative 0.3%; 0; Score 15.4; DB 1; Pred. No. 8.7e+02; Mismatches 8.7e+02; Length 20; Indels <u>.</u> Gaps

0,

ADJ45268 standard;

맑

CAGAACAACCTGGAGGA 20

DNA; 20

06-MAY-2004 (first entry)

ADJ45268;

Hepatoma-derived growth factor antisense oligo seqid

RESULT 763
ADJ45268
ID ADJ452
XX ADJ452
XX O6-MA)
XX V6-MA)
XX XX V7
XX Cytost
XX Cytost
XX Cytost
XX Cytost
XX M hepatc
XX human; cytostatic; endocrine; hepatoma-derived growth factor inhibitor; hepatoma-derived growth factor; metabolic disorder; hyperprolife disorder; hyperproliferative;

おうちゃん かんかん

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밁
                                                                                                                                                                                          S
                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                           The invention describes a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding hepatoma-derived growth factor, and inhibits the expression of hepatoma-derived growth factor. The compound, composition and methods are useful for treating a disease or condition associated with hepatoma-derived growth factor, such as a metabolic disorder, or a hyperproliferative disorder, e.g. cancer, which is selected from hepatoma, leiomyoma, esophageal cancer or ovarian cancer. They are also useful in research and disgnostics for modulating the expression of hepatoma-derived growth factor. This sequence represents a human hepatoma-derived growth factor antisense oligonucleotide.
                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New compound, particularly an antisense oligonucleotide targeted to nucleic acid encoding a hepatoma-derived growth factor, useful for treating a hyperproliferative disorder e.g. cancer, or a metabolic
cytostatic; endocrine; hepatoma-derived growth factor inhibitor;
                                                    06-MAY-2004
                                                                            ADJ45339;
                                                                                                       ADJ45339
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 15; SEQ ID NO 38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-142660/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-JUL-2002; 2002US-00210429.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-JUL-2002; 2002US-00210429
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                         Hepatoma-derived growth factor antisense oligo seqid 109.
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                                                                                                                                                                                          1103 TAGCACCCAGAGAGCAG
                                                                                                                                                                     4
                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ISIS PHARM INC.
                                                                                                     standard,
                                                                                                                                                                     TAGCACCCAGACAGCAG
                                                                                                                                                                                                                                                                       BP; 7 A; 7 C; 5 G; 1 T; 0 U;
                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dobie KW;
                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*tag= a
/mod_base= OTHER
/note= "OTHER= 2'-O-Methoxyethyl (2'-MOB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= c
/mod_base= OTHER
/note= "OTHER= 2'-O-Methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
/note= "OTHER= Phosphorothioate backbone. All cytidines
are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *tag=
                                                                                                    DNA;
                                                                                                                                                                                                                                0.3%;
                                                                                                     20
                                                                                                                                                                                                                                                                                                                                                                                                                                                      61pp; English.
                                                                                                                                                                                           1119
                                                                                                                                                                     20
                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                 Score 15.4;
Pred. No. 8.
                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                 8.7e+02; Length 20;
                                                                                                                                                                                                                                                                       0 Other;
                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nucleotides
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RESULT 765
ADL59589
ID ADL595
XX
AC ADL595
XX
DT 03-JUN
XX
DE Human
                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding hepatoma derived growth factor. The compound, composition and methods ar useful for treating a disease or condition associated with hepatoma-derived growth factor, such as a metabolic disorder, or a hyperproliferative disorder, e.g. cancer, which is selected from hepatoma, leiomyoma, esophageal cancer or ovarian cancer. They are also useful in research and diagnostics for modulating the expression of hepatoma-derived growth factor. This sequence represents a human hepatom derived growth factor antisense oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New compound, particularly an antisense oligonucleotide targeted to nucleic acid encoding a hepatoma-derived growth factor, useful for treating a hyperproliferative disorder e.g. cancer, or a metabolic
  Human ESM-1 antisense oligonucleotide segid 1838.
                                            03-JUN-2004
                                                                                      ADL59589;
                                                                                                                                ADL59589 standard;
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 1 A; 5 C; 7 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bennett CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            31-JUL-2002; 2002US-00210429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-JUL-2002; 2002US-00210429
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 15; SEQ ID NO 109; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-142660/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US2004023379-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hepatoma-derived growth factor; metabolic disorder; hyperproliferative;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                 1103 TAGCACCCAGAGAGCAG 1119
                                                                                                                                                                                                                                      17
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                                                                                                                                                                                                                                                                                                                                          similarity 94.1%;
                                                                                                                                                                                                                                      TAGCACCCAGACAGCAG
                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dobie
                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  '*tag= c
/mod_base= OTHER
/note= "OTHER= 2'-0-Methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note= '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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/mode= "OTHER= 2'-O-Methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              note= "OTHER= Phosphorothicate backbone. All cytidines
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                                                                                                                                DNA,
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                                                                                                                                                                                                                                                                                                                                          Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                   DB 1;
                                                                                                                                                                                                                                                                                                                                                              Length 20;
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                                                                                                                                                                                                                                                                                                                         Indels
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Best Local (
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ADL59612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule-1; ESM-1; ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury; angiogenic disorder; immunological disorder; cardiovascular disorder;
                              ADL59612 standard; DNA; 20 BP
                                                                                                                                                                                                                       Sequence 20 BP; 3 A; 9 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 3; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                           composition for treating e.g., diabetes, disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New antisense compound, having a sequence targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), useful for preparing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Weinstein EJ,
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                                                                                                                                2892 CCCAGTCACAGATGCCT 2908
                                                                                                                                                             16;
                                                                                                      w
                                                                                                                                                                            Similarity
                                                                                                      CCCTGTCACAGATGCCT 19
                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                              ID NO 1838; 555pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disorder; antisense technology; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Griggs DW;
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/mod_base= OTHER
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/note= "OTHER= 2
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                                                                                                                                                                           0.3%;
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                                                                                                                                                             0;
                                                                                                                                                                           Score 15.4; DB 1;
Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2'-methoxyethyl (2'-MOE) nucleotides'
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                                                                                                                                                              Mismatches
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                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or cardiovascular
                                                                                                                                                                                          Length
                                                                                                                                                              Indels
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Query Match
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                                                                                                                                                                                                   The invention describes a new antisense compound, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), that specifically hybridises with the nucleic acid ESM-1 and inhibits its expression. Also described are: a composition; inhibiting the expression of ESM-1 in cells or tissues; and treating an animal having a disease or condition associated with ESM-1. The compound is useful for preparing a composition for treating diabetes, cancer, ischaemia or reperfusion injury, or angiogenic, immunological, cardiovascular or neurological disorder. This sequence represents an antisense oligonucleotide that can be used to modulate expression of endothelial specific molecule-1 (ESM-1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule-1; ESM-1; ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury; angiogenic disorder; immunological disorder; cardiovascular disorder; neurological disorder; antisense technology; ss.
                                                                                                                                                         Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New antisense compound, having a sequence targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), useful for preparing composition for treating e.g., diabetes, cancer or cardiovascular
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI;
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2892 CCCAGTCACAGATGCCT 2908
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                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 1861; 555pp;
                                                                                                                                                         BP; 4 A; 8 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antisense oligonucleotide seqid 1861.
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/note= "OTHER= phosphorothioate backbone. All cytidine
residues are 5-methylcytidines"
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/note= "OTHER= 2
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e= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
                                                                           94.1%;
                                                                                                       0.3%;
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Pred. No. 8.
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                                                       Mismatches
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                                                                                8.7e+02;
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RESULT 767

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                                                                                                                                                               The invention describes a new antisense compound, having a sequence comportsing 8-30 bp targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), that specifically hybridses with the nucleic acid ESM-1 and inhibits its expression. Also described are: a composition, inhibiting the expression of ESM-1 in cells or tissues; and treating an animal having a disease or condition associated with ESM-1. The compound is useful for preparing a composition for treating diabetes, cancer, ischaemia or reperfusion injury, or angiogenic, immunological, cardiovascular or neurological disorder. This sequence represents an antisense oligonucleotide that can be used to modulate expression of endothelial specific molecule-1 (ESM-1).
                                                                                                                   Sequence 20 BP; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3, SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense compound, having a sequence targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), useful for preparing composition for treating e.g., diabetes, cancer or cardiovascular
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-AUG-2003; 2003WO-US025833
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ilarity 94.1%;
Conservative
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/note= "OTHER= 2'
16. .20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NO 1211;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mod_base= OTHER
/note= "OTHER= phosphorothioate backbone. All cytidine
residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
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                                                                                                                   9 C; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "OTHER= 2'-methoxyethyl (2'-MOB) nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ი
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  555pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP
  0,
                                                                                                                   G; 5 T; 0 U; 0 Other;
Pred. No. 8.7
                             Score 15.4; DB 1; Pred. No. 8.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2'-methoxyethyl (2'-MOE)
                                                          DB 1; Length 20;
     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleotides"
  0
     Gaps
     0
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2892 CCCAGTCACAGATGCCT 2908

Query Match Best Local Similarity

0.3%;

Score 15.4; DB 1; Pred. No. 8.7e+02;

Length

20

Sequence 20

BP; 4 A; 8 C; 4 G; 4 T; 0 U; 0 Other;

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RESULT 768
ADL596695
AX
ADL596
XX
ADL596
A
                                                                                comprising 8-30 bp targeted to a nucleic acid encoding endothelial specific molecule-1 (BSM-1), that specifically hybridises with the nucleic acid ESM-1 and inhibits its expression. Also described are: a composition, inhibitsing the expression of ESM-1 in cells or tissues; and treating an animal having a disease or condition associated with ESM-1. The compound is useful for preparing a composition for treating diabetes, cancer, ischaemia or reperfusion injury, or angiogenic, immunological, cardiovascular or neurological disorder. This sequence represents an antisense oligonuclectide that can be used to modulate expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compound, having a sequence targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), useful for preparing composition for treating e.g., diabetes, cancer or cardiovascular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule-1; BSM-1; BSM-1; alabetes; cancer; ischaemia; reperfusion inju angiogenic disorder; immunological disorder; cardiovascular disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human
                                                                                                                                                                                                                                                                                                                                                                 The invention describes a new antisense compound, having a sequence
                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3; SEQ ID NO 1944; 555pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-AUG-2002; 2002US-0404495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-AUG-2003; 2003WO-US025833.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004021978-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neurological disorder; antisense technology; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  03-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (PHAA ) PHARMACIA CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 뭗
                                                                 specific molecule-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antisense oligonucleotide seqid 1944.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mod_base= OTHER
/note= "OTHER= phosphorothioate
residues are 5-methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               base= OTHER
e= "OTHER= 2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              base= OTHER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ი
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2'-methoxyethyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (2'-MOE)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   backbone.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   All cytidine
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RESULT 769
AD042533
ID AD0425
XX AD0425
XX AD0425
XX HUMAN
DE HUMAN
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07-DEC-2001
10-DEC-2001
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05-DEC-2001;
07-DEC-2001;
    11-DEC-
11-DEC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; NOVX; PCR; ss; cancer; atherosclerosis; diabetes; Alzheimer's disease; Parkinson's disease; graft-versus-host scleroderma; hypertension; haemophilia; idmunodeficiency; AIDS; idiopathic thrombocytopenic purpura; immunodeficiency; AIDS; dyslipidemia; obesity; Crohn's disease; bronchial asthma; an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dyslipidemia; obesity; Crohn's disease; bronchial asthma; anorexia; cancer-associated cachexia; multiple sclerosis; fertility; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human NOVX PCR primer #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADO42533;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADO42533 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2004058338-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2892
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                                                                   -2001;
-2001;
-2002;
-2002;
-2002;
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2001US-0338318P
2001US-033992P
2001US-033992P
2001US-0339516P
2001US-0339516P
2001US-0339511P
2001US-034038P
2001US-0340390P
2001US-0340340P
2001US-0340340P
2001US-034144P
2001US-034144P
2001US-034147P
2001US-034147P
2001US-034197P
2001US-0353286P
2002US-0353286P
2002US-035954P
2002US-035954P
2002US-035967P
2002US-035967P
2002US-0361254P
2002US-0361254P
2002US-0361254P
2002US-0361254P
2002US-0364238P
2002US-0365025P
2002US-0365025P
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2002US-0365025P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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      Agee ML, Alsobrook JP, Anderson Burgess CE, Catterton B, Dipip Ellerman K, Gangolli EA, Gerlar Herrmann JL, Halvorsen Y, Ji W, Larochelle WJ, Lepley DM, Li L, Padigaru M, Patturajan M, Pena Rothenberg ME, Shenoy SG, Smitl Stone DJ, Taupier RJ, Vernet CJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-MAY-2002

16-MAY-2002

17-MAY-2002

28-MAY-2002

28-MAY-2002

29-MAY-2002

29-MAY-2002

06-AUG-2002

07-AUG-2002

20-AUG-2002

23-AUG-2002

23-AUG-2002

23-AUG-2002

23-AUG-2002

23-AUG-2002

23-AUG-2002
New human NOVX polypeptides and nucleic acid molecules, useful diagnosing, preventing or treating NOVX-associated disorder, e.
                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                                                        AAGEE/)
(AALSO/)
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SHENOY S G.
SMITHSON G.
SPADERNA S K.
SPADERNA S K.
STONE D J.
STONE D J.
TAUPIER R J.
TENERT C A M.
VOSS E Z.
ZHONG M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PADIGARU M.
PATTURAJAN M
PENA C E A.
PEYMAN J A.
RIEGER D K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DIPIPPO V A.
EDINGER S R.
EISEN A.
ELLERMAN K.
ELLERMAN V.
GANGOLLI E I.
GERLACH V.
GORMAN L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ANDERSON D W.
BERGHS C.
BOLDOG F L.
BURGESS C E.
CATTERTON E.
DIPIPPO V A.
EDINGER S R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KHRAMTSOV N V.
LAROCHELLE W J.
LEPLEY D M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GUO X S.
HERRMANN J
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ALSOBROOK J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEKUDA R.
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2002US-0381094P
2002US-0381495P
2002US-0383534P
2002US-0383744P
2002US-0383829P
2002US-0383829P
2002US-0393332P
2002US-0401315P
2002US-0401315P
2002US-04017488P
2002US-0401748P
2002US-0401740P
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2002US-040569P
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2002US-040569P
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                                                                                                         p, Anderson DW, Berghs C, Boldog FL;
1 E, Dipippo VA, Edinger SR, Eisen A;
1 E, Gerlach V, Gorman L, Rothberg BG, Guo
2 EA, Gerlach V, Kekuda R, Khramtsov NV;
2 DM, Li L, Macdougall JR, Miller CE, Ort 7;
2 DM, Li L, Macdougall JR, Rieger DK;
3 M, Pena CEA, Peyman JA, Rieger DK;
2 G, Smithson G, Spaderna SK, Spytek KA;
3 Vernet CAM, Voss EZ, Zhong M;
    e.g. cancer,
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for

Ort

Guo H XS;

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RESULT 770
AAQ67183/c
ID AAQ67183;

XX
AC AAQ67183;

XX
AC AAQ67183;

XX
DT 25-MAR-2003 (revised)
DT 22-MAR-1995 (first entry)
XX
DE Primer for amplifying part of th
XX
Immunisation; vaccine; therapy;
KW non-functional gene; template; a
KW human immunodeficiency virus; ss
XX
OS Synthetic.

XX
WO9416737-Al.

XX
PD 04-AUG-1994;
YX
PD 04-AUG-1994;
YX
PP 26-JAN-1993; 93US-00008342.
PR 11-MAR-1993; 93US-00029336.
PR 11-MAR-1993; 93US-00029336.
PR 11-MAR-1993; 93US-00029336.
PR 21-SEP-1993; 93US-00124962.
PR 21-SEP-1993; 93US-00124962.
PR 21-SEP-1993; 93US-00125012.
XX
PA (WEIN/) WEINER D B.
PA (WALC) WANG B.
PA (WALC) WANG B.
PA (WANG) WANG B.
PA (CONE/) CONEY L R.
PA (MANG/) WANG B.
PA (CONE/) ZURAWSKI V R.
XX
DR Weiner DB, Williams WV, Wang I
XX
DR WPI; 1994-263787/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 용
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to human NOVX polypeptides and the polynucleotides comoding them. The invention also relates to antibodies specific to the concoding them. The polypeptides, polynucleotides and antibodies are useful for manufacturing a medicament for treating a syndrome associated with a human disease, such as a pathology associated with the NOVX polypeptide. The sequences are useful for diagnosing, treating or preventing a NOVX-associated disorder, e.g., cancer, atherosclerosis, cd diabetes, Alzheimer's disease, parkinson's disease, graft-versus-host disease, scleroderma, hypertension, haemophilia, idiopathic thrombocytopenic purpura, immunodeficiencies, AIDS, dyslipidemia, cobesity, Croim's disease, bronchial asthma, anorexia, cancer-associated cachexia, multiple sclerosis or fertility. The nucleic acids may be used as hybridisation probes, in chromosome mapping, in tissue typing, in preventive medicine or in pharmacogenomics. This sequence represents a PCR primer used in analysis of expression of a human NOVX polynucleotide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunisation; vaccine; therapy; prophylaxis; defective gene; non-functional gene; template; antisense; ribozyme; bupivacaine; HIV; human immunodeficiency virus; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 5 A; 4 C; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             atherosclerosis, diabetes, Alzheimer's disease, Parkinson's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4596 ACTGCATGGACAGGTGC 4612
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    amplifying part of the gag region of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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                                                                 Wang
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
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Pred. No. 8.7e
0; Mismatches
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                                                                 ω,
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                                                                   Coney LR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length
                                                                     Merva MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20
                                                                     Zurawski
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reexaxoooooooooooooooo
                                                                                                                                              Method for introducing genetic material into cells - utilises polynucleotide function enhancer and nucleic acid free of retroviral particles, e.g. HIV immunisation.
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Page 109; 136pp; English.

contacting the individual's cells with a polynucleotide function enhancer CC (bupivacaine) and (b) administering to the cells the nucleat acid CC molecule free of retroviral particles. Nucleic acid molecules which are CC delivered to cells may serve as genetic templates for proteins that CC function as prophylactic and/or therapeutic immunising agents; CC replacement copies of defective, missing or non-functional genes; genetic CC templates for therapeutic proteins; genetic templates for antisense CC molecules or as genetic templates for ribozymes. Two primers (AAQ67182), CC AAQ67183) were used to amplify part of the gag coding region from a CC plasmid construct which comprised the 5' LTR and the rest of the HIV-1 CC genome to nucleotide 5795 (Genbamk numbering) cloned into the XbaI and CC SalI sites of Bluescript (The HIV-1 sequences are obtained from the HXB2D CC plasmid). The amplified sequence was used in the construct designated CC pGAGPOL.rev2, used to express HIV gag and pol genes. (Updated on 25-MAR-CC 2003 to correct PN field.)

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Sequence 21 BP; 0 A; 4 C; 10 G; 7 T; 0 U; 0 Other;
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Query Match Best Local : Matches l Similarity 16; Conserv Conservative 0.3%; 0; Score 15.4; Pred. No. 8 Mismatches 8.8e+02 몂 1; Length 21; Indels 0 Gaps 0

맑 S 1261 AGCCTACAGCCCCACCA 1277 18 N

RESULT 771

AAT00869 standard; DNA; 21 ВP

16-MAY-1996 (first entry)

HIV strain HXB2 gag coding region 3' primer.

AATOO869/c
ID AATOO8
XX
AC AATOO8
XX 16-MAY
XX IMMUNI
KW IMMUNI
KW ANIONI
KW Immunisation; disease; pathogen; genetic vaccine facilitator; saponin; anionic lipid; lectin; oestrogen; alkyl; dimethylsulphoxide; urea; PCR; retroviral particle; retrovirus; HIV; SIV; epitope; primer; amplification; 88

Synthetic

WO9526718-A1

12-OCT-1995

30-MAR-1995; 95WO-US004071.

01-APR-1994; 94US-00221579

(APOL-) APOLLON INC

WPI; 1995-358434/46.

Introducing genetic material into cells of an individual - the cells with a genetic vaccine facilitator and a nucleic by contacting acid molecule

19; Page 50; 114pp; English.

Immunisation of an individual against a disease or pathogen comprises introducing genetic material (a genetic vaccine) into the cell of the individual by contacting the cell with a genetic vaccine facilitator

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RESULT 772
AAT13768
ID AAT137
XX AAT137
XX AAT137
XX Endog]
KW Endog]
KW Endog]
KW Endog]
KW Gene t
XX Synthe
PN WO9616
XX COLUN

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Best Local Similarity
Matches 16; Conserv
   Best Loc
Matches
                              Query Match
Best Local Similarity
                                                                                                                                                                          Oligonucleotides derived from introns of the endoglin gene can be used primers for amplifying a single exon of the endoglin gene for its use i diagnosis of haemorrhagic telangiectasia (HHT). DNA encoding endoglin c be used for gene therapy of HHT which is caused by inheritance of a defective gene, e.g. endoglin, beta-glycan, TGF-beta-type I or II receptor or TGF-beta-factivin type I receptor. Two primers (AAT13767, AAT13768) were used to amplify an exon sequence of the endoglin gene. Primer pairs used in this method are described in AAT13757-78

    Human gene for endoglin (t
    useful in diagnosis and

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                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 13; 71pp; English.
                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              telangiectasia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1996-286827/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Marchuk DA, Mcallister K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-NOV-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  06-JUN-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Endoglin; TGF-beta; beta-glycan; receptor; diagnosis; gene therapy; haemorrhagic telangiectasia; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Primer for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAT13768 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 21 BP; 0 A; 4 C; 10 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UYDU-) UNIV DUKE.
(HSCR-) HSC RES & DEV LP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1261 AGCCTACAGCCCCACCA 1277
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      16;
                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amplifying endoglin exon
      Conservative
                                                                                                                  BP; 6 A; 4 C; 8 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94US-00346129
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                           94.1%;
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                                                             0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (transforming growth factor beta binding protein)
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   0;
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Score 15.4; DB 1
Pred. No. 8.8e+02,
0; Mismatches
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Pred. No. 8.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence.
                                                          DB 1; Length 21;
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      Indels
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   0;
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   Gaps
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RESULT 773
AAZ1846/C
ID AAZ184
XX AAZ184
XX AZ184
XX POlymo
XX ASTH1;
XW ASTH1
XX Seque
RESULT 774
AAZ97503
ID AAZ975
XX
AC AAZ975
XX
AC AAZ975
XX
DT 15-SEP
DT 26-APR
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                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                   Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                           The invention identifies a genetic locus ASTH1, associated with asthma, mapped to human chromosome 11p. ASTH1I and ASTHIJ are genes present within the locus, located close to each other on human chromosome 11p, and have similar patterns of expression, and common sequence motifs. The ASTH1 genes and fragments, encoded protein, genomic regulatory regions and anti-ASTH1 antibodies are useful in the identification of individuals predisposed to development of asthma, and for the modulation of gene activity in vivo for prophylactic and therapeutic purposes. The ASTH1 protein is useful as an immunogen to raise specific antibodies, in drug screening for compositions that mimic or modulate ASTH1 activity or expression, including altered forms of ASTH1 protein, and as a therapeutic. Sequences AAZ18366-Z18509 represent polymorphisms in the
                                                                                                                                                                                                                                                                                  Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ18406;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Miller A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page 62; 195pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mammalian asthma related genes, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Brooks-Wilson AR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-JAN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapeutic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Polymorphic fragment in region 5' to ASTHIJ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-0CT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (AXYS-) AXYS PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ASTH1; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       development of asthma
                                                                                                                                                                                        4891 ACAAGTTGCCATCTGGTTT 4909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1999-479058/40.
                                                                                                                                                           20
                                                                                                                                                                                                                        16;
                                                                                                                                                                                                                                                                                                                   and ASTH1J genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               w
                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGGGAGGAACCTGATG 2625
                                                                                                                                                           ACAAGTTGCYGTCTGGCTT
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                                                                                                                                                                                                                                                                                    BP; 7 A; 5 C; 5 G; 3 T;
                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       i; human; chromosome 11p;
immunogen; polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US001260
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Buckler A,
                                                                                                                                                                                                                                      0.3%;
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                                                                                                                                                                                                                                      Score 15.4;
Pred. No. 8.
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                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                      U; 1 Other;
                                                                                                                                                                                                                                          8.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for diagnosis
                                                                                                                                                                                                                                                     DB 1; Length 21;
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                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         predisposition
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15-SEP-2003 26-APR-2000 AAZ97503;

(revised) (first entry)

AAZ97503 standard;

DNA;

21

ВP

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AAS975
XX AAS975
XX AAS975
XX 15-SEP
DT 15-SEP
DT 26-APR
XX DE HIV-1
XX Human
KW drug #
XX drug #
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes the detection of drug-selected mutations in the HIV protease gene. The method of detection allows the simultaneous characterisation of a range of codons involved in drug resistance using sets of probes optimised to function together in a reverse-hybridisation assay. AAZ97517 to AAZ97997 represent specifically claimed probes for use in the assay, and AAZ97479 to AAZ97501 represent specifically claimed HIV protease gene polymorphic nucleotide sequences. AAZ97502 to AAZ97515, and AAZ98004 to AAZ98007, represent PCR primers for the HIV protease gene, and AAZ97516 represents an HIV protease probe used in an example from the present invention. The method, probes and primers can be used for the detection of drug-selected mutations in the HIV protease gene. The method allows the simultaneous characterisation of a range of codons involved in drug resistance. The method may also be used for HIV protease genotyping assays. The probes are able to discriminate between wild type and mutated protease sequences. The method allows rapid and reliable detection of drug-selected mutation in HIV. (Updated on 15-SEP-2003 to standardise OS
                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Detection of drug-selected mutations in the HIV protease gene used treat HIV infections.
 Human immunodeficiency virus 1.
                                                 Human immunodeficiency virus; HIV; prot drug selected mutation; hybridisation;
                                                                                                  HIV-1 protease gene PCR primer SEQ ID NO:502.
                                                                                                                                   15-SEP-2003
26-APR-2000
                                                                                                                                                                                      AAZ97507;
                                                                                                                                                                                                                    AAZ97507 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-JUN-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human immunodeficiency virus 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIV-1 protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (INNO-) INNOGENETICS NV
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                                                                                                                                                                                                                                                                                                                                      1261 AGCCTACAGCCCCACCA 1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        n immunodeficiency virus; HIV; protease; probe; detection; selected mutation; hybridisation; genotyping; infection; resistance; PCR primer; ss.
                               resistance; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4; Page 19; 76pp; English.
                                                                                                                                                                                                                                                                                                                                                                         16;
                                                                                                                                                                                                                                                                                                                                                                                       0.3%;
Similarity 94.1%;
                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                   (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98EP-00870143
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                                                                                                                                                                                                                                                                                                                                                                                                                                        A; 10 C; 4 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                     DNA; 21
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                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                                                                                         Score 15.4; DB 1; Length 21; Pred. No. 8.8e+02;
                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                               protease; probe; detection; ion; genotyping; infection;
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                                                                                                                                                                                                                                                                                                                                                                                       8.8e+02;
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RESULT 776
AAZ77203/c
ID AAZ772
XX AAZ772
XC AAZ772
XX IO-SEP
XX Human
XX Human
XX Human
XX Human
XX Haplot
KW Applot
KW Applot
KW Applot
KW Applot
KW Applot
KW Applot
KW Haplot
KW Haplo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes the detection of drug-selected mutations CC in the HIV protease gene. The method of detection allows the simultaneous CC characterisation of a range of codons involved in drug resistance using CC sets of probes optimised to function together in a reverse-hybridisation CC assay. AAZ97517 to AAZ97997 represent specifically claimed probes for use in the assay, and AAZ97479 to AAZ97501. represent specifically claimed HIV CC protease gene polymorphic nuclootide sequences. AAZ97502 to AAZ97515, and CC AAZ98004 to AAZ98007, represent PCR primers for the HIV protease gene, cC and AAZ97516 represents an HIV protease probe used in an example from the CC and AAZ97516 represents an HIV protease probe used for the CC detection of drug-selected mutations in the HIV protease gene. The method cC allows the simultaneous characterisation of a range of codons involved in CC drug-selected mutation may also be used for HIV protease genotyping CC assays. The probes are able to discriminate between wild type and mutated CC protease sequences. The method allows rapid and reliable detection of drug-selected mutation in HIV. (Updated on 15-SEP-2003 to standardise OS circle).
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                        Human genome; biallelic marker; high density disequilibrium map; genomic map; haplotype; phenotype; polymorphic base; genotyping; haplotyping; hybridisation; dentification; characterisation; haplotyping; hybridisation; dentification; SNP; PCR primer; amplification; single nucleotide polymorphism; SNP; PCR primer;
                                         21-APR-1999;
                                                                                                            28-OCT-1999.
                                                                                                                                                                                                                                                                                                            diagnosis; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human biallelic marker downstream amplification primer SEQ ID NO:11559.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-SEP-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection of drug-selected mutations in the HIV protease gene used treat HIV infections.
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                                                                                                                                                                                                                                          Homo sapiens
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                                             99WO-IB000822
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Pred. No. 8.8e+02
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RESULT 777
AAZ95599
ID AAZ9559
XX AAZ955
XX AC AAZ955
XX Human
XX Human;
XW Human;
XW OSler-
XX Homo &
XX US6022
XX 
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Best Local S
Matches 16
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N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and 3367, are not accually given a sequence in the Sequence Listing from the present invention.
                             Diagnosing hereditary hemorrhagic telangiectasia by identifying genetic mutations that lead to susceptibility to the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6022687-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; endoglin; hereditary haemorrhagic telangiectasia; HHT;
Osler-Weber-Rendu disease; diagnosis; identification; PCR pri
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human endoglin PCR primer SEQ ID NO:31.
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23-NOV-1998;
                                                                                                                                                                        Marchuk DA,
                                                                                                                                                                                                                                                                                        29-NOV-1994;
                                                                                                                                                                                                                                                                                                                                             29-NOV-1995;
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                                                                                                                                                                        Mcallister K,
                                                                                                                                                                                                                                DUKE
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98US-0109732P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.4; DB 1. Pred. No. 8.8e+02
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RESULT 778
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XX Bovine
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Best Local S
Matches 16
The present invention describes an isolated nucleic acid molecule (I) consisting of a cis-acting mRNA transport sequence (RTS) (Ia) of a myelin basic protein (MBP) cDNA or its portion that enhances transport of mRNA within the cytoplasm, or consisting of a cis-acting mRNA localisation enhancer (RLE) (Ib) of MBP cDNA or its portion which enhances localisation of mRNA within the cytoplasm, (I) placed 5' or 3' to a heterologous gene that is operably linked to a 5' regulatory region and a 'termination sequence, in an expression vector is useful for expressing a heterologous gene which involves transforming a host cell with the expression vector. (I) confers properties such as localisation, transport and increased translation efficiency of a heterologous mRNA transcript when transcribed into such mRNA. (I) present in a vector is useful for increasing translation of a heterologous gene, by which increased production of recombinantly produced proteins in vivo on either a small,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a method (I) for diagnosing, or identifying a predisposition to, hereditary haemorrhagic telangiectasia (HHT) (also called Osler-Weber-Rendu diaease) comprising determining whether a sample of genomic DNA from the subject contains a mutation in the gene encoding endoglin (the mutation is indicative of a predisposition to HHT). The method may be used for diagnosing (or identifying individuals with a predisposition to developing) HHT. The present sequence represents a PCR primer for the human endoglin gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel nucleic acid molecule having cis-acting mRNA transport sequence localization enhancer which enhance transport or localization of mRNA within cytoplasm, respectively, is useful for enhancing gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Myelin basic protein; MBP; cis-acting mRNA transport sequence; RTS; cis-acting mRNA localisation enhancer; RLE; gene therapy; localisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bovine RTS homology transported mRNA NOS SEQ ID NO:11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 3; Fig 3; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carson J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-MAY-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (RESE ) RESEARCH CORP TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2609 AGGGGAGGAACCTGATG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entry)
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Pred. No. 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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RESULT 779
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Matches 16
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Guanidinium functionalized oligomers prepared from corresponding monomer units, are hybridizable with a specific RNA or DNA sequence, useful for diagnostic and therapeutic purposes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           research scale or on a large commercial scale is increased. The recombinantly produced proteins whose translation is enhanced by (I) may be a biologically active protein, structural or therapeutic protein. (I) is useful in gene therapy. The present sequence represents a transported mRNA sequence with RTS homology, which is used in the exemplification of
       AAF96199;
                                                      AAF96199 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to nucleotide oligomers comprising monomunits. Oligomers modulate gene expression when hybridized by a single-double-stranded nucleic acid. They are useful for gene therapy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                             diagnostic
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llarity 94.1%;
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llarity 94.1%;
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0; Mismatches
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Pred. No. 8.
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RESULT 781
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AC AAS116
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Matches 16
                                                                                                                                                                                                                                                                              The present invention provides a method of diagnosing a vascular disease in an individual, involving determining the sequence at various polymorphic sites within the human thrombospondin 1 and thrombospondin 4 genes. The sequences at a number of polymorphic sites are also provided in the specification. In particular, the method can be used in the disease, stroke, peripheral vascular diseases, venous thrombosembolism and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also useful in forensics, paternity testing, genetic analysis and phenotype correlations to diseases. The present sequence is an example of one of the human gene SNPS shown in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acids comprising single nucleotide polymorphisms, useful applications such as forensics, paternity testing, medicine, generallysis and phenotype correlations to diseases such as diabetes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; variant thrombospondin 1; variant thrombospondin 4; SNP; polymorphism; vascular disease; coronary artery disease; forensics; myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-SEP-1999; 99US-0153357P.
26-JUL-2000; 2000US-0220947P.
16-AUG-2000; 2000US-0225724P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            06-JUN-2001
                             24-OCT-2001
                                                       AAS11636;
                                                                                AAS11636 standard;
                                                                                                                                                                                                                                                        Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                               Example, Page 116; 242pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lander ES,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-SEP-2000; 2000WO-US024503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pulmonary embolism; paternity test; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (WHED ) WHITEHEAD INST BIOMEDICAL (MILL-) MILLENNIUM PHARM INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Variation
                                                                                                                                                                          3573 AGAGAGGGCGCCTTCCC 3589
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                                                                                                                                                                                                                  Similarity
                                                                                                                                                 AGAGAGGGCGGATTCCC 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single nucleotide
                                                                                                                                                                                                                                                       BP; 7 A; 4 C; 7 G; 3 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gargill M,
                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0153357P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers replace(11,A)
/*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag= a
/standard_name= "single nucleotide polymorphism"
                                                                                DNA;
                                                                                                                                                                                                                 0.3%;
                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ireland
                                                                                ВP
                                                                                                                                                                                                    0;
                                                                                                                                                                                                                  Score 15.4; DB 1
Pred. No. 8.8e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JS,
                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bolk S,
                                                                                                                                                                                                                                                           0 Other;
                                                                                                                                                                                                                                DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Daley GQ,
                                                                                                                                                                                                                              Length 21;
                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                       0;
                                                                                                                                                                                                       Gaps
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Human CYP2B6 allele sequencing primer seqCYP2B6-P2F for promoter region.

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ARESULT 782
AAF27878/c
ID AAF278
XX AAF278
AC AAF278
XX AAF278
CT 30-MAR
XX Human
CE Human
XX Human
XX
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The sequence represents a sequencing primer used to sequence the promoter region of the human CYP2B6 gene. It is used for specific detection and genotyping of CYP2B6 alleles in humans, determination of which is useful for the optimisation of therapies utilising CYP2B6 substrates. Oligonucleotide sequences are useful in detection of the individual predisposition to several common cancers caused by environmental carcinogens, and diseases treated with drugs that are targets of the CYP2B6 gene product, whose metabolism is therefore dependent on CYP2B6. Cancer or susceptibility to cancer can be diagnosed by detecting the presence of a molecular variant of CYP2B6. From variants of the alleles, modulators of the activity can be developed for use in treatment and prevention of CYP2B6-related disorders
                                                                                                                                                                                                                                                                                 cerebroprotective; immunomodulator; vulnerary; vasotropic; gene therapy; hyperplasia; tumour; restenosis; psoriasis; Dupuytren's contracture; diabetes; rheumatoid arthritis; cerebral oedema; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAF27878 standard; DNA; 21
      01-JUN-2000; 2000WO-US015303
                                                                   14-DEC-2000
                                                                                                                             WO200075321-A2
                                                                                                                                                                                                                                                                                                                                                                       Human; NOVX; antiinflammatory; cytostatic; neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Human NOV7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New polynucleotide(s) of the polymorphic human CYP2B6 gene for detection and treatment of disorders i.e. cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-FEB-2000; 2000EP-00102701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-FEB-2001; 2001WO-EP001456
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
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                                                                                                                                                                                                                                                primer; probe; ss.
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                                                                                                                                                                                          sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 1 A; 7 C; 3 G; 10 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                    forward primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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RESULT 783
ACD40283/c
ID ACD402
XX ACD402
AC ACD402
XX O3-SEP
XX T1ssue
KW Pancre
KW cardio
KW cardio
KW thromb
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence was used to isolate a new isolated polypeptide (NOVX). The NOVX polypeptides, NOVX nucleic acids, and anti-NOVX cc antibodies are useful for treating or preventing NOVX-associated cd disorders. They are also useful for determining the presence of or a predisposition to a disease associated with altered levels of the NOVX copypeptide or nucleic acid. These NOVX-associated disorders include hyperplasias, tumours, restenosis, psoriasis, Dupuytren's contracture, cc diabetic complications, rheumatoid arthritis, cerebral lesions, diabetic neuropathies, cerebral oedema, senile dementia or Alzheimer's disease. The NOVX polynucleotides are especially useful in gene therapy. Specifically, NOVX is useful as a diagnostic marker or prognostic marker, protein therapeutic and antibody target or small molecule drug target to treat disorders in the immune response pathway, thyroid and metabolic disorders, diseases of the pancreas (e.g. diabetes or digestive disorders), proliferative diseases, or tissue regeneration and development (e.g. wound healing or treatment of burns) or the sum of the pancreas of the pancreas (e.g. regeneration and development (e.g. wound healing or treatment of burns) or the sum of the pancreas of the pancreas (e.g. regeneration and development (e.g. wound healing or treatment of burns) or the sum of the pancreas (e.g. the sum of the pancreas (e.g. the sum of the sum of the pancreas (e.g. the pancreas (e.g. the sum of the pa
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Matches 16; Conserv
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16-MAR-2000;
22-MAR-2000;
30-MAR-2000;
31-MAY-2000;
                                                                                                                                             cardiovascular disease; melanoma; atherosclerosis; diabetes mellitus; ischaemic heart disease; haemorrhage; peripheral vascular disease; PCR; thrombosis; hypertension; systemic lupus erythematosus; haematopoiesis; tissue regeneration; wound healing; hyperproliferative disorder; primer; psoriasis; neural disorder; Parkinson's disease; Alzheimer's disease; Huntington's disease; multiple sclerosis; amyotrophic lateral discasse; ALS; peripheral neuropathy; nervous system tumour; neurocoxin; tremor; neuropathy; acute brain injury; peripheral nerve trauma; human; NOVX;
                                                                                                                                                                                                                                                                                                                                                                                                     Tissue typing; cancer; breast cancer; colon cancer; lung cancer; sarcoma; pancreatic cancer; uterine cancer; organ transplantation disorder; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Breast tumour associated protein 47-like polypeptide NOV7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACD40283 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 8 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2; Page 165; 194pp; English
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); 2000US-0189810P.
); 2000US-0191158P.
); 2000US-0193086P.
); 2000US-00137322.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                       cute brain injury; peripheral nerve trauma; human; NOVX; epilepsy; breast tumour associated protein 47.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.4; DB 1;
Pred. No. 8.8e+02;
0; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      forward primer.
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RESULT 784
ADH97217/c
ID ADH972
XX
AC ADH972
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              treatment including therapeutic and prophylactic. The nucleic acid is also useful for expressing NOVX protein. The nucleic acid is also useful to provide polynucleotide reagents e.g. labelled probes that are useful in an in situ hybridisation technique, for identifying a specific tissue (for example brain tissue) and for use in forensic science. The nucleic acid is also useful for mapping genes on a chromosome and thus locating gene regions associated with genetic disease, identifying an individual from a minute biological sample and to aid in forensic identification of biological sample. The nucleic acid is also useful for treating cancer, cepecially cancers of the breast, colon, lung, pancreas or uterus, or a melanoma or sarcoma. The nucleic acid is also useful for treating disorders related to organ transplantation, cardiovascular disease, atheroselerosis, ischaemic heart disease, haemorrhage, diabetes mellitus, peripheral vascular disease, thrombosis, hypertension and systemic lupus erythematosus. NOVX protein encoded by the nucleic acid is useful for
                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                         regulating haematopolesis, for regeneration of bone, cartilage, tendon ligament and/or nerve tissue growth or regeneration and for wound healing. The nucleic acid is also useful for treating infections, hyperproliferative disorders e.g. psoriasis, and neural disorders including Parkinson's disease, Alzheimer's disease, Huntington's disease, multiple sclerosis, amyotrophic lateral sclerosis (ALS), peripheral neuropathy, tumours of the nervous system, exposure to neurotoxins, acute brain injury, peripheral nerve trauma or injury and other neuropathies, epilepsy, and/or tremors. The present sequence represents a human breast tumour associated protein 47-like polypeptide PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           acid is useful for identifying a compound that binds the nucleic acid. The nucleic acid is useful in gene therapy, in screening assays, in detection assays e.g. chromosomal mapping, cell and tissue typing and forensic biology, predictive medicine e.g. diagnostic assays, prognostic assays, monitoring clinical trials and pharmacogenomics and methods of assays, monitoring clinical trials and pharmacogenomics and methods of
                                                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 8 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid sequence encoding a human breast tumor-associated protein 47-like polypeptide, useful for treating cardiovascular disorders, neural disorders, diabetes mellitus and cancers.
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30-MAR-2000; 2000US-0193068P.
03-MAY-2000; 2000US-0201188P.
31-MAY-2000; 2000US-00584411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-MAR-2000;
22-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      03-JUN-1999;
                      ADH97217
                                                                ADH97217 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a new isolated NOV4 nucleic acid. The nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-OCT-2001; 2001US-00977418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CURA-)
                                                                                                                                                                                                                  1925 CTTCTTTGGAGCAGGCA 1941
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                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0189810P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pernandes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99US-0137322P
                                                                                                                                                                                                                                                                              94.1%;
                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                                                                                                                                                    Score 15.4;
                                                                                                                                                                                                                                                                                  Pred.
                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                No. 8.8e+02
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                                                                                                                                                                                                                                                                                                    DB 1; Length 21;
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RESULT 785
ADJ13812/C
ID ADJ138
XX ADJ138
XX ADJ138
XX ADJ138
XX ADJ138
XX POOB9
XX Probe;
XX Pr
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Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to novel synthetically modified oligomers that have increased nuclease resistance and have enhanced hybrid binding. Such oligomers are useful for diagnostic and therapeutic uses such as antisense technologies. The invention also discloses a method for the preparation of the oligomers with modifications as fully defined in the specification. The present sequence represents a synthetically modified oligonucleotide of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 2 A; 7 C; 2 G; 10 T; 0 U; 0 Other;
                                                                                                                   27-JUN-2001; 2001US-0301370P
                                                                                                                                                                           27-JUN-2002; 2002US-00184085.
                                                                                                                                                                                                                                   14-AUG-2003
                                                                                                                                                                                                                                                                                        US2003152950-A1
                                                                                                                                                                                                                                                                                                                                                                                                probe; 88; chemical modification; methylation; array; CpG island;
tumour suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human DNA probe used to immobilise CpG methylated DNA SeqID 939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADJ13812;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADJ13812 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 26; SEQ ID NO 6; 51pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Guanidinium functionalized oligonucleotides used for diagnostic, therapeutic or investigative purposes comprises a number of nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-644179/61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Manoharan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-JUL-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetically modified nuclease resistant oligomer #6
                                                                                                                                                                                                                                                                                                                                              Homo sapiens
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                                (GARN/) GARNER H R. (MINN/) MINNA J D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1186 AGAGAGAGAGAGAAATC 1202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGAGAGAGAAAAATC 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9905-00349040
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Pred. No. 8.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mohan V;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 786
ADJ13106/c
ID ADJ131
XX ADJ131
XX DT 20-MAY
XX Probe;
KW Eumon E
XX US2003
PN US2003

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Best Local Sim
Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in different base sequences depending upon the presence or absence of the modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene pl6 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
  Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Analysis of chemical modification of DNA involves obtaining sample of to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.
                                                                                                                 WPI; 2003-874843/81.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2003152950-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention.
                                                                                                                                                                                                                                                                                   /NNIM
                                                                                                                                                                                                                                                                                                         (GARN/)
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                                                                                                                                                                                                                             (BALO/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88;
                                                                                                                                                                       Ħ,
                                                                                                                                                                                                                       GARNER H R.
MINNA J D.
LUEBKE K J.
BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    suppressor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGATGAGAAGGGGAGAG 2452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      probe used to immobilise CpG methylated DNA SeqID 233.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                chemical modification; methylation; array; CpG island
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                                                                                                                                                                    Minna JD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N
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                                                                                                                                                                       Luebke
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Mismatches
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No. 8.8e+02;
                                                                                                                                                                    Balog
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RESULT 787
ADJ13699/C
ID ADJ136
XX ADJ136
XX ADJ136
XX YX ADJ136
XX YX YX
XX YX
DE Human
XX Probe;
XW Lumour
XX Caran
PF 27-JUN
XX CARN
PR (LUEB)
PR (LUEB)
PR (BALO)
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Best Local S
Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 21
                                                                                                                                                                                                                                  Garner HR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; SEQ
                                                                                                                                                                                                                                                                                              (GARN/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                (LUEB/)
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                                                                                                                                                                                                     2003-874843/81.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention relates to a novel method for analysing chemically
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 ATGAGAGGGGGAGAGGT
                                                                                                                                                                                                                                                              ) GARNER H R.
) MINNA J D.
) LUEBKE K J.
) BALOG R P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                suppressor; p16; human; H69; H1618.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ss; chemical modification; methylation; array; CpG island
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGAGAAGGGGAGAGGT 2454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             probe used to immobilise
                                                                                                                                                                                                                                   Minna JD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            94.1%;
                                                                                                                                                                                                                                   Luebke
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Pred. No. 8.8e+02;
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                                                                                                                                                                                                                                   Balog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CpG methylated DNA SeqID 826.
                                                                                                                                                                                                                                     RP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
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This invention relates to a novel method for analysing chemically modified macromolecules. Specifically, it refers to a high throughput method for the parallel analysis of many potential sites of chemical modification (e.g. methylation) in DNA. The present invention describes treating the DNA with one or more chemical reagents that result in

depending

Analysis of chemical modification of DNA involves obtaining sample of DNA to be analyzed, treating DNA with chemical reagents that result in different base sequences, and determining sequence of resulting DNA.

1; SEQ

ID NO 826;

210pp;

English

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16-MAR-2000;
22-MAR-2000;
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The invention relates to an isolated nucleic acid encoding a human cell adhesion molecule-like protein, comprising a sequence encoding a polypeptide having a sequence appearing as ADM55387, a sequence at least 90% identical to the nucleic acid, a sequence encoding a polypeptide having conservative amino acid substitutions to the protein or a fragment
                                                                                                                                                                                                               New nucleic acids encoding human cell adhesion molecule-like proteins, useful for treating e.g. cancers, neurological disorders, viral, bacterial, fungal, helminthic and protozoal infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      modification of interest. Accordingly, a device comprising an array of probes is provided to hybridise with and select the altered DNA sequences that comprise the modifications of interest such as a CpG island. In particular, this invention refers to analysing the methylation pattern of a region of the promoter for the tumour suppressor gene p16 from two human lung tumour cell lines H69 and H1618. This oligonucleotide sequence is a human DNA probe used to immobilise CpG methylated DNA of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; ss; PCR; cell adhesion molecule; NOVX; cancer; leukaemia;
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                                                                                                                                                                 Example
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2000US-0189810P.
2000US-0191158P.
2000US-019306P.
2000US-0201388P.
2000US-00584411.
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Pred. No. 8.8e+02;
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                                                                                                                                                              English.
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                                                                                                                                                                                                                                                                                                                                                                              Vernet
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Huntington's diseas human; PCR; primer;

incision; ulcer;

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Cytost
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                             KW
    cytostatic; hepatotropic; vulnerary; antipsoriatic; osteopathic;
KW antiarthritic; antiatherosclerotic; haemostatic; vasotropic;
KW thrombolytic; antidiabetic; hypotensive; dermatalogical;
KW thrombolytic; antidiabetic; hypotensive; dermatalogical;
KW virucide; protozoacide; neuroprotective; antirheumatic; antiarthritic;
KW virucide; protozoacide; neuroprotective; anticonvulsant;
KW paoriasis; tissue hypertrophy; osteoarthritis;
KW paoriasis; diabetes mellitus; hypertension; hypothyroidism;
KW malaria; candidiasis; autoimmune disorder; connective tissue disease;
KW mysathenia gravis; graft- versus-host disease;
KW mysathenia gravis; graft- versus-host disease;
KW mysathenia gravis; graft- versus-host disease;
KW mysathenia disease; halbemiar; s disease;
KW humtington; s disease; amyotrophic lateral sclerosis; Shy-Drager syndrome;
KW humtington; s disease; amyotrophic lateral sclerosis; Shy-Drager syndrome;
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16; Conserv
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Pred. No. 8.8e+02;
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RESULT 790
ADF91944/c
ID ADF919
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AC ADF919
XX
                                                                                                                                                                                                                                                                                                            CC cirrhosis, keloid, psoriasis, tissue hypertrophy, osteoarthritis, CC disease, thrombosis, diabetes mellitus, hypertension, hypothyroidism. (I) CC disease, thrombosis, diabetes mellitus, hypertension, hypothyroidism. (I) CC is useful in treatment of various immune deficiencies and disorders such as severe combined immunodeficiency (SCID), bacterial infection, viral CC infection such as herpes viral infection, protozoan infection such as CC malaria, fungal infection such as candidiasis. (I) is also useful in CC treating autoimmune disorders such as connective tissue disease, multiple CC elevosis, systemic hupus, erythematosus, rheumatoid arthritis, CC autoimmune pulmonary inflammation, Guillain Barre syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitus, myasthenia gravis, CC asthma. (I) useful in regulation of haematopoiesis, regeneration and CC asthma. (I) useful in regulation of haematopoiesis, regeneration and tissue growth of bone, cartilage, tendon, ligament and useful for wound healing and tissue repair. (I) also useful in treatment of burns, cincisions and ulcers (I) also useful in treatment of periodontal CC disease, Alzhemier's disease, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. (I) has effective
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22-MAR-2000;
30-MAR-2000;
03-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a substantially purified polypeptide (I) having amino acid sequence chosen from a fully defined NOVX sequence (S1) of 708 amino acids sequence in the specification, or polypeptide having one or more conservative amino acid substitutions of (S1), or mutant or variant of (S1). (I) having (S1) is useful for diagnosing a pathological condition associated with (I) or its activity in a subject e.g. cancer. (I) useful in treatment of cancer, hyperproliferative diseases,
                     ADF91944;
                                                                                                                                                                                                                                                                                                                                              amyotrophic lateral sclerosis, and Shy-Drager syndrome. (I) has effectiv
antitumour and antiinflammatory activity. This sequence represents a
primer used in the isolation of DNA encoding a novel human NOVX protein.
                                                           ADF91944 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                            Sequence 21 BP; 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel substantially NOVX polypeptide useful for diagnosing, preventing and treating diseases e.g., cancer, multiple sclerosis, systemic lupus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shimkets RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US2003199103-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (CURA-)
                                                                                                                                                                                             1925 CTTCTTTGGAGCAGGCA 1941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                         20
                                                                                                                                                                                                                                     16;
                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0189810P.
2000US-0191158P.
2000US-0193086P.
2000US-0201388P.
2000US-00584411.
                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fernandes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0137322P.
                                                                                                                                                                                                                                                                                                          A; 4 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                     94.18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53;
                                                                                                                                                                                                                                                                       0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165pp; English.
                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Herrman
                                                                                                                                                                                                                                                                       Score 15.4;
                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                     No. 8.8e+02;
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                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                   Gaps
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RESULT 791
ADG47997/c
ID ADG47997 standard; DNA; 21 BP.
XX
AC ADG47997;
XY
DT 11-MAR-2004 (first entry)
XX
Duplex DNA strand 2 used for tri
XX
Duplex DNA strand 2 used for tri
XX
Cos Unidentified.
XX
PN US2003092046-A1.
XX
PD 15-MAY-2003.
XX
PF 20-SEP-2002; 2002US-00349040.
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                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to novel nucleic acid amplification primers for the detection of human cytokeratin (CK) 18, 19 or 20 expression by the LAMP (loop mediated isothermal amplification) method. The primers of the invention may be useful for the detecting cytokeratin 18-20 expression as an indicator for the diagnosis of tumour metastasis, particularly prostate cancer and lymphoma. The amplification using the primers is highly efficient and allows very sensitive detection of tumour metastasis. The current sequence is that of the human CK18-derived DNA of metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-MAY-2002; 2002JP-00145689.
17-JUN-2002; 2002JP-00175271.
09-JUL-2002; 2002JP-00199759.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 2 A; 7 C; 6 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human cytokeratin 18-derived Flc DNA - SEQ ID
                                                                                                                                                                                     Duplex DNA strand 2 used for triplex formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LAMP nucleic acid amplification primers for detection of c
expression as indicator in diagnosis of tumour metastasis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-MAY-2003; 2003WO-JP006256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-NOV-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         probe; PCR; Flc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (SYSM-) SYSMEX CORP.
                                                                                                                                                                                                                                                                                                                                                                                 2216 GACCCCAGCTCAGAGAC 2232
                                                                                                                                                                                                                                                                                                                                                     21
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••
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytokeratin; CK; LAMP; loop mediated isothermal amplification; metastasis; prostate cancer; lymphoma; human; CK18; ss; primer
                                                                                                                                                                                                                                                                                                                                                       GACCCCAGGTCAGAGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Akai Y,
                                                                                                                                                                                                                                                                                                                                                                                                                 llarity 94.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                        diagnosis; therapeutic; investigation; ds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         266pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                K
                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Abe S,
                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.4; DB 1
Pred. No. 8.8e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minekawa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for detection of cytokeratin
                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32
                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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0;

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RESULT 792
ADH42938/c
ID ADH429
XX
ADH429
XX
ADH429
XX
AC ADH429
XX
Guanid
XX
Guanid
XX
BS Synthm
XX
PM US659:
XX
PM 15-JUI
XX
PM (ISIS
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     맑
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to novel oligonucleotides comprising several nucleotide units which are specifically hybridisable with a selected sequence of RNA or DNA wherein at least one of the nucleotide moieties of the oligomer is modified to include a guanidinium group. These oligonucleotides are useful for diagnostic, therapeutic and investigative purposes. The present sequence is a duplax DNA strand 1 used for triplex formation in the exemplification of the invention.
  The invention relates to a compounds. The guanidinium
                                                                                                                                                                                                                                                                                                                                                                                                           07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88; guanidinium
2-0-guanidinium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Guanidinium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADH42938 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 36; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New oligomers containing cexpression by hybridizing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MANO/)
(COOK/)
(PRAK/)
                                                                         Example 36; SEQ ID NO 10;
                                                                                                                                                                                                                   WPI; 2004-118052/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-JUL-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6593466-B1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADH42938;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-031184/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUL-2000;
                                                                                                                                           oligomers used for diagnostic,
                                                                                                                                                                    New guanidinium functionalized
                                                                                                                                                                                                                                                                                                             (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1186 AGAGAGAGAGAAATC 1202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COOK P D.
PRAKASH T P.
MOHAN V.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MANOHARAN M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGAGAGAAAAATC 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21
                                                                                                                                                                                                                                                                 Σ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     functionalised oligonucleotide triplex formation
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                                                                                                                                                                                                                                                                                                                PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cook PD,
                                                                                                                                                                                                                                                                 Cook PD,
                                                                                                                                                                                                                                                                                                                                                               99US-00349040
                                                                                                                                                                                                                                                                                                                                                                                                           99US-00349040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                functionalised nucleotide; ethyl; increased binding at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 C; 2 G; 10 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6; 54pp; English
                                                                                                                                                                                                                                                                 Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Prakash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   guanidinium groups, useful for modulating g oligomer with single- or double-stranded
                                                                       40pp; English.
  guanidinium functionalised nucleotide functionalised nucleotide compounds as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 15.4; DB 1;
Pred. No. 8.8e+02;
                                                                                                                                              nucleotide compounds useful for preparing therapeutic and investigative
                                                                                                                                                                                                                                                                 TP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mohan
                                                                                                                                                                                                                                                                 Mohan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e; guanidinium;
affinity; trip
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                triplex formation
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       are used
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RESULT 793
ADH6852
ID ADH685
XX ADH685
XX ADH685
XX ADH685
XX MICROS
ROSA S
ROSA S
XX MICROS
KW MICROS
KW MICROS
KW MO2003
XX MO2003
XX MO2003
XX MO2003
XX II-MAN
XX III-MAN
XX II-MAN
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ঠ
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This invention describes novel oligonucleotides derived from microsatellite markers and used for the amplification of the rose genome. The invention also describes a test kit for genetic analysis of cultured cor wild forms of the genus Rosa sp. that contains at least one of the new oligonucleotide primers and preparing microsatellite markers of Rosa sp. the contains at least one of the new oligonucleotide primers and preparing microsatellite markers of Rosa sp. the Core pair, to produce polymorphic fragments which are separated and contains an experiment pair state and the especially on high-resolution agarose or native or denatured conjuctive labelling and antoradiography, automated sequencing using conjuctive labelling and autoradiography, automated sequencing using primers labelled with dyes or fluorophores or by mass spectrometry. A genomic library of 0.5-1.5 kb fragments from the rose variety. A genomic library of 0.5-1.5 kb fragments from the rose variety. A coli and the cells tested against a high-density array of synthetic microsatellites. Inserts in plasmids that hybridised were sequenced and the dentified sequences selected for ability to differentiate between a set of 30 rose varieties. The oligonucleotides are used for genetic analysis of cultivated and wild types of roses, particularly for genetic capalysis of cultivated and wild types of roses, particularly for genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  for preparation of oligomers useful for diagnostic, therapeutic and investigative applications. The 2-quantidinium ethyl modification increases binding affinity to a target. The present sequence represe the sense strand of a duplex DNA sequence used to form a triplex wiguantidinium functionalised oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       microsatellite marker; rose genome; PCR; hypervariable region; genetic mapping; relatedness analysis; hybrid identification; breeding; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 9; 52pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New oligonucleotides from rose microsatellite markers, useful analysis, including identification of varieties and hybrids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-MAY-2002; 2002DE-01022632.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CONC-) CON
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Pred.
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No. 8.8e+02;
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RESULT 794
ADDI19817/C
ID ADDI198
XX ADDI198
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-JUN-1999;
16-MAR-2000;
22-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mapping and labelling of mono- or poly-genic traits, selection, analysis of relatedness, identification of varieties and evaluation of varietal purity, identification of hybrids and plant breeding. The oligonucleotides are useful in automated processes, do not require radioactive detection methods and can differentiate between almost all commercial rose varieties. ADH68375-ADH68674 represent the PCR primers used to amplify the Rose microsatellite regions described in the method
  The present invention is based in part on the discovery of novel secreted and membrane-bound polypeptides and their encoding polynucleotides. The nucleic acids and polypeptides are collectively referred as NOVX. The invention is useful for treating, preventing and diagnosing diseases such as metabolic disorders, diabetes, obesity, infectious diseases such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Parkinson's disease; epilepsy; immune disorder; osteoarthritis; haematopoietic disorder; inflammatory skin disorder; asthma; dyslipidemia; neurogenesis; cell differentiation; cell proliferation; haematopoiesis; wound healing; angiogenesis; chromosome mapping; tissue typing; preventive medicine; pharmacogenomic; gene therapy; anorectic; cardiant; virucide; antibacterial; fungicide; protozoacide; nootropic; neuroprotective; dermatological; human; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADI19817 standard;
                                                                                                                                                                                                                   disorders.
                                                                                                                                                                                                                                                                                                                                 WPI; 2004-070737/07.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          infection; anorexia; cancer; cardiovascular disease; hypertension; atherosclerosis; neurodegenerative disorder; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Secreted protein; NOVX; diagnosis; metabolic disorder; diabetes; obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human NOV7
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                                                                                                                                                                                                                                                  protein PRO-228
                                                                                                                                                                                                                                                                           New NOVX nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-OCT-2001; 2001US-00977819.
                                                                                                                                                                                                                                                                                                                                                                                                                                            (CURA-)
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                                                                                                                                                                   SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-0189810P.
2000US-0191158P.
2000US-0193086P.
2000US-0201388P.
2000US-00584411.
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                                                                                                                                                                                                                                                                                                                                                                                   Pernandes
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                                                                                                                                                                                                                                                                                                                                                                                                                                            CORP.
                                                                                                                                                                                                                                                  polypeptides,
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                                                                                                                                                                   53;
                                                                                                                                                                                                                                               encoding human
ptides, useful
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                                                                                                                                                                                                                                                                                                                                                                                   묤,
                                                                                                                                                             95pp;
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Pred. No. 8.8e+02
                                                                                                                                                                                                                                                                                                                                                                                      Herrman
                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                           human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
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                                                                                                                                                                                                                                                     for
                                                                                                                                                                                                                                               KIAA0768 protein-like and h
for treating NOVX-associated
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Query Match
Best Local S
Matches 16
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                                                                                                        Sequence 21
Local Similarity
nes 16; Conserv
                                                                                                                                                              primer.
  Conservative
                                                                                                           BP; 8 A; 4 C; 6
                         0.3%;
0
                                                                                                           G; 3 T; 0 U; 0 Other;
                               Score 15.4;
Pred. No. 8
        Mismatches
                            8.8e+02;
                                                           멂
                                                  Length
        Indels
                                                              21;
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ADJ31660 standard;
22-APR-2004
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                                                                                                                        CTTCTTTGGAGCAGGCA 1941
                                                                                                    CTTCTTTGGAGCATGCA
(first entry)
                                            21
                                                                                                    4.
                                            BP
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밁 S

Human haem oxygenase 1 DNA amplifying reverse PCR primer.

Haem oxygenase 1; HO; hyperbilirubinaemia; neonatal jaundice; neurodegenerative disease; Alzheimer's disease; Parkinson's diseas; antisense-therapy; nootropic; neuroprotective; human; PCR; primer; disease; 88

sapiens.

US2003235913-A1

20-JUN-2002; 2002US-00178258.

20-JUN-2002; 2002US-00178258.

(ISIS-) ISIS PHARM INC

2004-070587/07.

New antisense oligonucleotide compounds, useful for diagnosing, preventing and/or treating conditions with aberrant activity of heme oxygenase 1, such as hyperbilirubinemia, neonatal jaundice and neurodegenerative diseases.

Example 13; SEQ ID NO 6; 43pp; English.

RESULT 795
ADJ31660
ID ADJ316
XX ADJ The present invention relates to antisense compounds, compositions and methods used for modulating the expression of haem oxygenase (HO) 1. The methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of diseases or conditions associated with aberrant expression or activity of haem oxygenase 1 such as hyperbilirubinaemia, neonatal jaundice and neurodegenerative diseases like Alzheimer's and Parkinson's disease. The invention is also useful in antisense-therapy. The present sequence is human haem oxygenase 1 DNA amplifying PCR primer used in the exemplification of the invention.

21 BP; υ Ą ഗ ü σ ູດ ຫ Ή. 0 ₽ 0 Other;

Query Match

Length

21

0

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RESULT 796
ADL70483/c
ID 170483/c
AC ADL704
AC
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                                                                                                                                                                      The present sequence is the antisense strand of a short interfering RNA (sirNA) targeted to nucleotides 1225-1243 of human insulin-like growth factor binding protein-5 (TGFBP-5) cDNA. The sense strand is also provided ADL70482. The sirNA can be used to interfere with the expression of IGFBP-5. Inhibition of IGFBP-5 expression can delay the progression of hormone-regulated (prostatic or breast) tumour cells to hormone-regulated cancers, provide a method for the treatment of hormone-regulated cancers, and inhibit or delay the growth and metastatic progression of prostate, breast and other IGF-1 sensitive tumours in bone. siRNAs of the invention can be used alone or in combination with other chemotherapy or apoptosis inducing treatments for the treatment of prostate cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jansen B,
Gonos ES;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New RNA molecule less than 49 bases and having a sequence effective to mediate degradation or block translation of mRNA that is the transcriptional product of a target gene, useful for treating Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21-AUG-2002; 2002US-0405193P.
03-SEP-2002; 2002US-0408152P.
20-MAY-2003; 2003US-0472387P.
                                                                                         sarcomas such as osteosarcoma, renal cell carcinoma, breast cancer, bladder cancer, lung cancer, colon cancer, ovarian cancer, anaplast large cell lymphoma and melanoma, and also for the treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNA interference; RNAi; short interfering RNA; siRNA; human; insulin-like growth factor binding protein-5; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      disease or cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-226852/21.
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                                                                Alzheimer'e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neuroprotective; nootropic; gene silencing; IGFBP-5; DNA-RNA hybrid; ss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ID NO 28; 63pp; English.
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/mod_base= OTHER
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Pred. No. 8.8e+02;
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Best Local
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16-MAR-2000; 2000US-0189810P.
22-MAR-2000; 2000US-0191158P.
30-MAR-2000; 2000US-0193086P.
03-MAY-2000; 2000US-0201388P.
31-MAY-2000; 2000US-00584411.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to human NOVX polypeptides and polynucleotides. NOVX sequences are useful in the treatment of cancer, hyperproliferative diseases, cirrhosis, keloid, psoriasis, tissue hypertrophy, osteoarthritis, atherosclerotic plaque formation, haemorrhage, ischaemic heart or renal disease, thrombosis, diabetes melitus, hypertension, hypothyroidism, asthma, burns, incisions, ulcers, periodontal disease, Alzhemier's disease, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, Shy-Drager syndrome, immune deficiencies and disorders such as severe combined immunodeficiency (SCID), bacterial infection, viral infection e.g. herpes viral infection, protozoan infection e.g. malaria, fungal infection e.g. candidiasis, autoimmune
                                                                                                                                                                                                                                                                                                                                                                         Novel substantially purified NOVX polypeptide for treating severe combined immunodeficiency, candidiasis, cancer, asthma, multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-068928/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shimkets RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUL-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1634 AGCTGGCCCAGTCCAAG 1650
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                                                                                                                                                                                                                                                                                             155pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>,</u>
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No. 8.8e+02;
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Matches 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitus, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. The invention is useful in regeneration and tissue growth of bone, cartilage, tendon, ligament, haematopoiesis regulation, wound healing and tissue repair. Sequences of the invention also exhibit antitumor and antinflammatory activities. The present sequence is human NOVX DNA specific PCR primer used in the exemplification of the invention.
                                                                                                                                        AAQ89895 and AAQ89896 are a pair of PCR primers used in the detection of the cystic fibrosis mutant region G 542X, using a novel method of detection. The G 542X mutation features a G to T mutation at nucleotide position 1756 in exon 11 of the CPTR gene. The method is useful in detecting genetic mutations or abnormalities such as point mutations and detections and is therefore useful in the diagnosis of genetic and particularly inheritable genetic diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cystic fibrosis transmembrane conductance regulator; CFTR; mutational analysis; deletion; genetic abnormality; detection;
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                                                                                                               Sequence
                                                                                                                                                                                                                                                                                       mutation and
                                                                                                                                                                                                                                                                                                        Detection of
                                                                                                                                                                                                                                                                                                                                   WPI; 1995-178882/23.
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                                                                                                                                                                                                                                                          Example 1; Page 19; 30pp; English.
                                                                                                                                                                                                                                                                                                                                                                Martinazzo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-OCT-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disorders such as connective tissue disease, multiple sclerosis, systemic
                                                                                                                                                                                                                                                                                                                                                                                           (RAGG-) RAGGIO-ITALGENE SPA.
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21
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                                                                     Similarity
                         TTTCTTTCTCTGCAAAC 4892
                                                                                                              22 BP; 10 A; 4 C; 5 G; 3 T; 0 U; 0 Other;
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                                                       Conservative
                                                                                                                                                                                                                                                                                      genetic mutation(s) - using one probe to one side second and third probes spanning the mutation.
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                                                                    0.3%;
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                                                                    Score 15.4;
Pred. No. 8.
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                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                              Turchetti B,
                                                                    8.8e+02
                                                                                    DB 1;
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Matches 16
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                                                                                                                                                              Coupled polymerase chain reaction; PCR; ligase detection rearestriction endonuclease digestion; RED; infectious disease; waste water purification; primer; ss.
                                                                                                                                                                                                                                                                          Primer used in mismatch extension of DNA in LDR reactions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mouse Huntington's Disease gene - useful for generating transgenic mice as a model of Huntington's Disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human Huntington's
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                                                        WO200056929-A2
                                                                                                           Unidentified.
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                                                                                                                                                                                                                                                                                                                                                                                     AAA96617;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13-JAN-1998
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Pred. No. 8.
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Page 393
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AALSO570/c
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Best Local S
Matches 16
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ligase detection reaction to identify low abundance sequences differing
by single-base changes insertion or deletion from high abundance
sequence in target sequences.
                                                                                                                                                                                            Molecular array;
gene expression;
                                                                                                                                                                                                                                               Molecular array
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                                                     18-MAR-2002; 2002WO-GB001245
                                                                                                                          WO200274988-A2
                                                                                                                                                             Unidentified
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LOUU
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 2001GB-00006635.
2001GB-00018879.
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                                                                                                                                                                                          target molecule identification; genetic analysis; detection; haplotyping; sequencing; PCR; primer.
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Pred. No. 8.8e+02;
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Producing a molecular array with a plurality of molecules immobilized to a solid substrate, useful in genetic analysis, gene expression studies of the detection or typing of single nucleotide polymorphisms in a sample of
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l Similarity 81.0%;
17; Conservative
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Pred. No. 8.8e+02
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22-SEP-2001; 2001US-0323967P.
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                                                                                                                                                                                                                                                                                                                                "OTHER=
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                                                                                                                                                                                                                                                                                                                                                   "OTHER= locked nucleic acid"
                                                                                                                                                                                                                                                                                                                                     OTHER
                                                                                                    English.
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                                                                                                                                                                                                                                                                                          locked
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                                                                                                                                                                                                                                nucleic
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                                                                                                                                                                                                                                acid
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The present sequence is that of pyrene-anchored locked nucleic acid (INA) CC oligo(dT) primer ON14, which was used in first-strand cDNA synthesis from CC eukaryotic mRNA. It includes compound '17d' at its 3' end, which is based CC on an INA-type 2'-0,4'-C-methylene-beta-D-ribofuranosyl molety. It is CC one of a set of such primers (see also ACC48482-85) that were used in an CC example from the invention to demonstrate improved reverse transcription CC fixNA using pyrene-LNA anchored oligo(T) primers. The following results CC were observed: efficient priming on mRNAs with short poly(A) tails; CC efficient anchoring of the oligo(T) primers. The following results CC units resulting in an improved 720-VN anchor primer and thus avoiding CC reverse transcription of long poly(A) tracts; and improved reverse conscitution of eukaryotic poly(A) tracts; and improved reverse conscitution of eukaryotic poly(A) tracts; and improved reverse concerns transcription of specificity. The invention relates to modified LNA units CC due to increased specificity. The invention relates to modified LNA units CC concerns the comprise unique base groups. Desirable nucleobase and nucleosidic CC base substitutions can mediate universal hybridiastion when incorporated concerns in sequencing, the synthesis of antisense oligonucleotides, and information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel nucleic acid comprising a locked nucleic acid unit having a modified base that comprises an optionally substituted carbocyclic moiety, or modified nucleobase or nucleosidic base other than
                                                                                                                  diagnostics
      B₽;
      P.
Ç
G;
20 T; 0 U; 2 Other;
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RESULT 803
ACC48485 E

ID ACC48485 E

XX ACC48485 E

XX ACC48485 E

XX ACC48485 E

XX Locked nu

XX Locked nu

XX Locked nu

XX Synthetic

XX Synthetic

XX W2003020

XX W2003020

XX W2003020

XX W2003020

XX Horis and Eled

FT modified

FT Wangel J,

XX W2003020

XX (EXIQ-) F

XX W2003020

XX CEXIQ-) F

XX W2003020

XX Ovel nu

PT Wengel J,

XX W2003020

XX Ovel nu

PT Wengel J,

XX W2003020

XX Ovel nu

PT Wangel J,

XX W2003020

XX Ovel nu

PT Wengel J,

XX W2003020

XX Ovel nu

PT Wengel J,

XX W2003020

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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel nucleic acid comprising a locked nucleic acid unit having modified base that comprises an optionally substituted carbocyc moiety, or modified nucleobase or nucleosidic base other than
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oxazole/imidazole.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-SEP-2001; 2001US-0317034P.
22-SEP-2001; 2001US-0323967P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04-SEP-2002; 2002WO-IB003911.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kauppinen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note= "OTHER= locked nucleic
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Pred. No. 8.8e+02;
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Example 24a; Page 90; 119pp; English.

coligo(GT) primer ONIS, which was used in first-strand CDNA synthesis from CCC enkaryotic mRNA. It includes compound '17d' at its 3' end, which is based CC on an LNA-type 2'-0,4'-C-methylene- beta-D-ribofuranosyl moiety. It is CC one of a set of such primers (see also ACC48482-84) that were used in an CCC example from the invention to demonstrate improved reverse transcription of mRNA using pyrene-LNA anchored oligo(T) primers. The following results were observed: efficient priming on mRNAs with short poly(A) trails; CC efficient anchoring of the oligo(T) primer by pyrene-LNA and LNA-C/G/T units resulting in an improved T20-VN anchor primer and thus avoiding reverse transcription of long poly(A) tracts; and improved reverse transcription of eukaryotic poly(A) tracts; and improved reverse due to increased specificity. The invention relates to modified LNA units that comprise unique base groups. Desirable nucleobase and nucleosidic that comprise unique base groups. Desirable nucleobase and nucleosidic consensation when incorporated into nucleic acid strands. The novel LNA compounds can be used e.g. as CCC PCR primers, in sequencing, the synthesis of antisense oligonucleotides. The present sequence is that of pyrene-anchored locked nucleic acid (LNA)

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RESULT 804
ACC48483;
XX
ACC48483;
XX
ACC48483;
XX
ACC48483;
XX
ACC48483;
XX
DT 11-AUG-2003 (first
XX
Locked nucleic acid,
XX
COCKED nucleic acid,
XX
Locked nucleic acid,
XX
COCKED nucleic acid,
XX
Locked nucleic acid,
XX
COCKED nucleic acid,
XX
Locked nucleic acid,
XX
Loca
FT modified base 2
Y*t
FT /mox
FT modified base 11
Y*t
FT /mox
FT modified base 21
Y*t
FT /mox
FT /m
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Best Local (
                                                                                                                                         04-SEP-2002; 2002WO-IB003911.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 22 BP; 0 A; 0 C; 0
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      Kauppinen
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                                                                                2001US-0317034P.
2001US-0323967P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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/mod_base= OTHER
/mote= "OTHER= lc
                                                                                                                                                                                                                         /*tag= h
/mod_base= OTHER
/mote= "OTHER= Compound 17d"
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'mod_base= OTHER
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/mod_base= OTHER
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e= "OTHER= locked
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1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.4;
Pred. No. 8
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The present sequence is that of pyrene-anchored locked nucleic acid (LNA) CC oligo(dT) primer ON13, which was used in first-strand cDNA synthesis from CC eukaryotic mRNA. It includes compound '17d' at its 3' end, which is based CC on an INA-type 2'-O,4'-C-methylene-beta-p-ribofuranosyl moiety. It is CC one of a set of such primers (see also ACC48482-85) that were used in an CC example from the invention to demonstrate improved reverse transcription CC were observed: efficient priming on mRNAs with short poly(A) tails; CC efficient anchoring of the oligo(T) primers The following results CC units resulting in an improved T2O-VN anchor primer and thus avoiding CC reverse transcription of long poly(A) tracts; and improved reverse transcription of long poly(A) tracts; and improved reverse CC transcription of eukaryotic poly(A) +RNA directly from total RNA extracts CC due to increased specificity. The invention relates to modified LNA units that comprise unique base groups. Desirable nucleobase and nucleosidic CC base substitutions can mediate universal hybridisation when incorporated cinto nucleic acid strands. The novel LNA compounds can be used e.g. as CC primers, in sequencing, the synthesis of antisense oligonucleotides, and in diagnostics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel nucleic acid comprising a locked nucleic acid unit having modified base that comprises an optionally substituted carbocycl moiety, or modified nucleobase or nucleosidic base other than oxazole/imidazole.
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Sequence 22 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 2 Other;

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RESULT 805
ABZ80983
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                      Bestrophin; vitelliform macular dystrophin 2; VMD2; ss; PCR; vaccine; antiobesity; antidiabetic; immunomodulator; hypotensive; cardiant; antilipemic; osteopathic; antiinflammatory; cytostatic; obesity; primer energy homeostasis; metabolism; triglyceride; body-weight regulation; eating disorder; cachexia; diabetes mellitus; hypertension; gallstones;
                                                                                                                                                                                 steep apnea.
                                                                                                                                                                                                                                                                            Mouse vitelliform macular dystrophin 2-like protein 3 gene primer #2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
llarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                               disease;
                                                                                                                                                                                              hypercholesterolemia; osteoarthritis;
                                                                                                                                                                                                                                                                                                                                                   BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.4; DB 1;
Pred. No. 8.8e+02;
1; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                 primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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WPI; 2003-393411/37. Steuernagel A, 09-OCT-2001; 2001EP-00124059 09-OCT-2002; 2002WO-EP011321.

DEVELOGEN ENTWICKLUNGSBIOLOGISCHE FORSCH.

Broenner G,

Fritsch R,

Eulenberg

<u>,</u>×

Ciossek

Mus musculus.

17-APR-2003 WO2003030922-A2

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RESULT 806
RESULT 806
RAD51324/c
ID AAD513
XX AAD513
XX AAD513
XX AAD513
XX Lamini
XX Lamini
XX Gastri
XX Uniden
XX W02002
XX Uniden
XX 
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to the isolation of members of the human bestrophin gene family designated vitelliform macular dystrophin 2 (VMD2). The dystrophin gene family are involved in energy homeostasis and metabolism of triglycerides. The sequence can be used for the manufacture of an agent for detecting and/or verifying, for treating, alleviating and/or preventing disorders including metabolic diseases such as obesity and other body-weight regulation and related disorders such as eating disorder, cachexia, diabetes mellitus, hypertension, coronary heart disease, hypercholesterolemia, osteoarthrits, gallstones, cancers of the reproductive organs, and sleep apnea. In an example of the invention, the expression of the isolated genes was analysed using a comparable number.
                                                                                                                                                                                     Assessing condition e.g. athletic ability, stage of disease, presence of drugs, response to exercise, response to vaccines, therapies, nutritional states, of performance animal involves analyzing nucleic acid expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Laminitis; viral disease; vaccine; bacterial disease; primer; epistaxis; gastritis; gastric ulcer; respiratory allment; fracture; joint disease; musculoskeletal damage; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New pharmaceutical compositions comprising a Bestrophin gene, polypeptide or nucleic acid, for treating, alleviating and/or preventing metabolic diseases, e.g. obesity, cachexia, diabetes mellitus, hypertension, or
                                                                                                                                                                                                                                                                                                                                                                             Brandon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-MAY-2002; 2002WO-AU000553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        14-NOV-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anchored oligo dT primer used to illustrate the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAD51324 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                      (GENO-)
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e mouse VMD2-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2954 AGGAGCTGGACCTAAGT 2970
                                                                                                                                                                                                                                                                                                              2003-120558/11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      GENOMICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22 BP; 5 A; 6 C; 5 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001AU-00004809.
2001US-00896941.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents a PCR primer used to amplify protein 3 gene for the analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>,,</u>
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Pred. No. 8.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                      YTG
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The invention relates to a method for assessing a condition of a performance animal. The method involves determining in sample about expressed target nucleic acid; transmitting digital sample signal.

sample signal

abundance signal to

Sequence 22

BP;

0 A; 0 C;

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20

T; 0

₽

2 Other;

homology search on a database. The methods are useful for presentation of sequences. It is also useful to prepare primer sequences to obtain a cDNA clone of a total coding region from a partial sequence of a gene having an unidentified sequence. The present sequence is a primer specific for human chromosome 10 RP-11-336A10 clone DNA. This sequence is used to illustrate the method of the invention

performance of expressed

Disclosure; Page 46;

87pp; English

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ARSSULT 807
AAD64451/c
ID AAD644
XX AAD644
XX Sequen
XX Sequen
XX Sequen
XX O9-OCT
XX O9-DEC
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Best Local
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                                                                                                                                                                                                                                   The invention relates to methods and system for sequence presentation. The method involves extracting a partial sequence corresponding to a partial sequence of a target gene having an unidentified sequence, by
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Presenting partial sequences by predicting and extracting exon sequences from a database, is useful to prepare primers to obtain a cDNA clone of total coding region from a partial sequence of an unidentified gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human RP-11-336A10 clone specific primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAD64451 standard;
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                                                                                                                                                                                                                                                                                                                                                        Example 4; SEQ ID NO 56; Opp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-864174/80.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HITA ) HITACHI LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human; chromosome 10;
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Pred. No. 8.
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ADE95668/c
AC ADE956
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Best Local S
Matches 17
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07-DEC-2001;
12-DEC-2001;
17-DEC-2001;
17-DEC-2001;
20-DEC-2001;
27-DEC-2001;
27-DEC-2001;
31-DEC-2001;
15-MAY-2002;
15-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAY-2002;
28-MAY-2002;
29-MAY-2002;
29-MAY-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cardiant; antiarteriosclerotic; hypotensive; cytostatic; anorectic; antirheumatic; antiarthritic; antidiabetic; nephrotropic; dermatological; immunosuppressive; anti-HIV; antidiabetic; nephrotropic; dermatological; immunosuppressive; antiparkinsonian; antiasthmatic; neuroleptic; notropic; antipaoriatic; antiparkinsonian; antiasthmatic; neuroleptic; antidepressant; antiallergic; gynaecological; gene therapy; vaccine; NOVX-associated disorder; cardiomyopathy; atherosclerosis; hypertension; cancer; obesity; rheumatoid arthritis; diabetes; glomerulonephritis; psoriasis; skin disorder; AIDS; inflammation; multiple sclerosis; hizheimer's disease; Parkinson's disease; asthma; schizophrenia; allergy; fertility disorder; PCR; primer; ss; Ag5738 reverse.
                        New NOVX polypeptides and nucleic acids, useful for preventing or treating NOVX-associated disorders, e.g. cancer, cardiomyopathy, atherosclerosis or diabetes, and in chromosome mapping, tissue typing
                                                                                                                                                                           Alsobrook JP, Anderson DW, Boldog FL, Burgess CE, Chillakuru Eddinger SR, Gerlach VL, Gorman L, Gould-Rothberg BE, Guo X; Jeffere ME, Ji W, Li L, Malyankar UM, Miller CE, Murghey R, Patturajan M, Peyman JA, Rastelli L, Rieger DK, Shenoy SG; Smithson G, Starling G, Taupier RJ, Voss EZ, Zhong H, Zhong
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               03-DEC-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human NOVX protein-related PCR primer Ag5738 reverse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-FBB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADE95658;
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                                                                                                                                                                                                                                                                                                                                            (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5392 TAAAAAAATACAAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21
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                                                                                                                                                                                                                                                                                                                                               CURAGEN CORP.
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                                                                                                                                                                                                                                                                                                                                                                                           2001US-0336600P.
2001US-0341346P.
2001US-0341347P.
2001US-0341540P.
2001US-0344297P.
2001US-0344903P.
2002US-0344903P.
2002US-0380981P.
2002US-0381495P.
2002US-0381495P.
2002US-0383534P.
2002US-038353P.
2002US-0406153P.
2002US-04061588.
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ilarity 81.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002WO-US038594.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         biochemical stimulation; physiological stimulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
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1; Mismatches
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Pred. No. 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8.8e+02;
3;
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Example
      ₽,
      SEQ ID NO 190; 211pp; English
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This invention relates to novel NOVX proteins, and the DNA sequence which chem, having properties related to stimulation of biochemical or physiological responses in a cell, a tissue, an organ or an organism. CC Compounds which modulate the proteins of the invention may have cardiant, cantiarteriosclerotic, hypotensive, cytostatic, anorectic, antirheumatic, cimunosuppressive, anti-HIV, antinfilammacory, neuroprotective, cc immunosuppressive, anti-HIV, antipfilammacory, neuroprotective, cc incorropic, antipsoriatic, antiparkinsonian, antiasthmatic, neuroleptic, antidepressant, antiallergic or gynaecological activities. The DNA cc sequences of the invention may be useful for gene therapy whilst the grotein sequences may allow the development of a vaccine. The protein is useful in the manufacture of a medicament for treating a syndrome cc associated with a human disease. The invention may be useful in cdiagnosing, treating or preventing NOVX-associated disorders, for example cc ardiomyopathy, atherosclerosis, hypertension, cancer, obesity, crheumatoid arthritis, diabetes, glomerulonephritis, psoriasis, skin disorders, AIDS, inflammation, multiple sclerosis, Alzheimer's disease, arthmatis, schizophrenia, depression, allergies or creatility disorders. The nucleic acide may further be used as hybridisation probes, in chromosome mapping, tissue typing, preventive medicine, and pharmacogenomics. The present sequence is that of PCR crimer Ag5718 reverse which was used for the amplification of a human cc exemplification of the invention.

Sequence 22 BP; 3 A; 6 C; 3 G; 10 Η, 0 U; 0 Other;

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8
                     Best Loc
Matches
                                         Query Match
                             Local
  2942 CCAGAAACCTGAAGGAG 2958
                              Similarity
                    0.3%;
nilarity 94.1%;
Conservative
                     <u>,</u>
                     Score 15.4; DB 1;
Pred. No. 8.8e+02;
0; Mismatches 1
                                         DB 1; Length 22;
                       Indels
                      0,
                      Gapв
                       0
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RESULT 809
                                                                                                          human; single nucleotide polymorphism; microarray; side effect; ss; primer; PCR.
                                                                                                                         Single nucleotide polymorphism detection primer, SEQ ID No 1906
                                                                                                                                  26-FEB-2004
                                                                                                                                            ADF88323
                                                                                                                                                      ADF88323 standard;
                                                                                                                                  (first entry)
                                                                                                                                                      DNA,
                                                                                                                                                      22
                                                                                                                                                      ВP
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Synthetic.

Homo sapiens

JP2003235571-A.

26-AUG-2003

12-FEB-2002; 2002JP-00034717.

12-FEB-2002; 2002JP-00034717

(KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN

WPI; 2003-820454/77.

Novel polynucleotide in human gene. useful for detecting single nucleotide polymorphisms

Claim 2; SEQ ID NO 1906; 704pp; Japanese

The invention relates to a novel polynucleotide isolated and purified

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RESULT 810
ABX74887/c
ID ABX7488
XX ABX748
XX ALX748
XX ALX748
XX Oligo-
XX Microa
KW differ
KW Morang
KW Gene e
OS Synthe
XX Synthe
XX UO2002
XX IO-OCT
IN INMODE
PT INMODE
PT INMODE
PT INMODE
PT IO-OCT
IO-
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Best Local Sim:
Matches 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               from a human gene having any one of 935 fully defined sequences as given in specification, or a sequence having a base substitution. The invention further relates to: an oligonucleotide containing single nucleotide polymorphisms; a PCR primer set chosen from the combination of two DNA fragments from any one of 1220 fully defined sequences as given in specification; a labelling probe containing the SNP containing oligo; and a microarray equipped with the SNP containing oligo. The isolated human gene of the invention is useful for detecting the single nucleotide polymorphisms in human gene. The isolated human gene is also useful for diagnosis of disease and determination of side effect to a medical agent. The isolated human gene is also polymorphisms in a human gene. The spolymucleotide sequence represents one of the PCR primers used in the single nucleotide polymorphism in a human gene. This polymucleotide polymorphism is a summan gene in the single nucleotide polymorphism in a human gene in the single nucleotide polymorphism in a human gene. This polymucleotide polymorphism
                               The present invention relates to a microarray comprising a matrix of at least one cDNA probe from a set of probes immobilised to a solid surface in a predetermined order, where a row of pixels corresponds to replicates of one distinct probe from the set. The probes are complementary to nucleic acid sequences that are expressed differentially in aggressive as compared to non-aggressive types of clear cell renal carcinoma (CC-RCC) and that hybridise to the probes under high stringency conditions. The microarray is useful for the prognosis of patients with CC-RCC, wherein aggressive and non-aggressive CC-RCC tumour types are characterised by aggressive and non-aggressive CC-RCC tumour types are characterised by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Microarray; solid surface; immobilised probe; CC-RCC; differential expression profile; aggressive CC-RCC tumour type; clear cell renal carcinoma; gene expressive CC-RCC tumour type; clear cell renal carcinoma; sene expression profiling; tumour tissue; oligo-dT; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New microarray, comprising a matrix of cDNA probe from immobilized to a solid surface in predetermined order, prognosis of patients with clear cell renal carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
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           aggressive a
differential
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                                                                                                                                                                                                                                                                                                                                                                                                                           Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (VAND-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    B
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                                                                                                                                                                                                                                                                                                                                                                                                                       Page 30; 179pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANDEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
   expression profiles
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Pred. No. 8.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Takashi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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   hybridise
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a set of probes
useful in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22
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RESULT 811
AD134007/c
ID AD1340
XX AD1340
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XX SYNTHE
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XX SYNTHE
PM 25-API
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                                                                           The invention relates to a method of selecting genes expressed in a cancer cell, which involves characterising cancer based on the functioning of gene selection by comparing the expression of the selected continuing of gene selection by comparing the expression of the selection configure from the cancer cell with the expression of an identical selection of genes from a noncancerous cell or different type of cancer cell. The method is useful for selecting the therapy of cancer by using a selection of genes or their products expressed in a cancer by using a selection of genes or their products expressed in a cancer cell, the gene selection or a selection of product functioning to characterising cancer by comparing the expression of the selected gene or their products from the cancer cell with the expression of an identical selection of genes or their products moncancerous. The method is also useful for diagnosing, their products monitoring and classifying a disease condition e.g. cancer cuch as neuroblastoma, rhabdomyosarcoma, Burkitt's or Ewing family of the cartery and the expression and characteristic and anchored oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 es; ca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probes immobilised on the microarray. The arrays are useful for gene expression profiling of tumour and normal tissues. The present seque represents an oligo-dT primer used in the examples of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Selecting genes expressed in cancer cell, by characterizing cancer based on functioning of gene selection by comparing expression of selected generom cancer cell with expression of selected genes from noncancerous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADI34007;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (RING/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-APR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KHAN/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer; neuroblastoma; rhabdomyosarcoma; Burkitt's tumour family;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5392 TAAAAAAATACAAAAAAAGAAA 5412
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RINGNER M.
PETERSON C.
MELTZER P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; Page 18; 53pp; English
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Pred. No. 8
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DB 1;

06-MAY-2004

(first

entry)

Human fibrosis/scarring predisposition-related PCR primer SeqID25.

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RESULT 812
ADK69815/c
ID ADK698
XX ADK698
XX ADK698
XX ADK698
XX ChonAy
DE PCR; p
XW Chondr
XX D-9luc
XX D
RESULT 813
ADJ45826
ID ADJ458
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AC ADJ458
XX
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Best Local
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel glucosyl-transfer agent. Specifically, it refers to the synthesis of chondroitin or chondroitin-sulphate proteoglycans using this glucosyl-transfer agent to transfer the N-acetyl galactosamine residue from a donor substrate to D-glucurone acid existing in the non-reducing terminal of an N-acetyl-D-galactosamine receptor substrate containing a formulaic sugar chain. The present invention describes a detection method for the canceration of tissue associated with the glucosyl-transfer agent as CSGalNAc-T. This oligonucleotide sequence is a PCR primer given in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel glucosyl-transferase transferring N-acetyl-D-galactosamine with respect to linkage tetrasaccharide existing in binding site chain, useful for synthesizing chondroitin/chondroitin-sulfate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PCR; primer; human; glucosyl-transfer agent; chondroitin; chondroitin-sulphate proteoglycan; N-acetyl galactosamine; D-glucurone acid; canceration; CSGalNAc-T; ss.
                                                                                       ADJ45826 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 22 BP; 2 A; 9 C; 4 G; 7 T; 0 U; 0 Other;
                               ADJ45826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (DOKU-) DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU (SEGK ) SEIKAGAKU KOGYO CO LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 12,
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Pred. No. 8.8e+02
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                                                                                                                                                                                                                                                                                                                                                             Mismatches
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mitochondrial genome; antiinflammatory; vulnerary; dermatological; nephrotic; gene therapy; Dupuytren's disease; keloid; hypertropic scar; scleroderma; systemic sclerosis; crest syndrome; tuberous sclerosis; skin patch; familial cutaneous collagenoma; skin metabolic disorders; eosinophilic fascitis; discoid lupus erythematosus; dermatomyositis; mixed connective tissue disease; dray-induced skin fibrosis; oral submucous fibrosis; pulmonary; cardiac fibrosis; liver fibrosis; cirrhosis; renal fibrosis; drug induced fibrosis; central nervous system fibrosis; peripheral nervous system fibrosis; peripheral nervous system fibrosis; genitourinary tract fibrosis; synaecological fibrosis; genitourinary tract fibrosis; scleroderma; myocardial fibrosis; myocardial infarction; stroke;
neurodegenerative disorder; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              complex III region; COI gene; Cytochrome c oxidase; complex IV region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ND2 gene; NADH-quinone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in vitro diagnosis; inappropriate fibrosis; scarring; 16sRNA region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  oxidoreductase; complex I; cytochrome
primer; ss.
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Homo sapiens

23-APR-2003; 2003WO-GB001717

30-APR-2002; 2002GB-00009812

(RENO-) RENOVO LTD.

J. Ollier WER, Bayat A;

WPI; 2004-022664/02

mitochondrial genome. In vitro diagnosing a condition due to inappropriate fibrosis or scarring, e.g. Dupuytren's disease by detecting polymorphism or mutation in the 16sRNA region, ND2 gene, cytochrome b region or COI gene of the

Example 1; SEQ ID NO 25; 81pp; English

CC detection of a predisposition to a condition characterised by
CC inappropriate fibrosis or scarring comprising examining the 16sRNA
CC region, ND2 gene of NADH-quinone oxidoreductase (complex II), cytochrome b
CC (complex III) region or COI gene of Cytochrome c oxidase (complex IV)
CC region of the mitochondrial genome to detect the presence of a genetic
CC polymorphism or mutation linked to the development of the condition. The
CC antiinflammatory, vulnerary, dermatological or nephrotic activity. In
CC addition, the sequences disclosed may prove useful for gene therapy. The
CC enthod, kit or delivery may be useful for disgnosing or detecting or
CC treating a predisposition to a condition characterised by inappropriate
CC is useful in the manufacture of medicament for treating a condition
CC characterised by fibrosis or scarring. The condition is Duputren's
CC classes, keloid or hypertropic scar, scleroderma, systemic sclerosis,
CC corest syndrome, tuberous sclerosis with skin patches, familial cutaneous
CC collagenoma, metabolic disorders of the skin, cosinophilic fascitis,
CC collagenoma, metabolic disorders of the skin, cosinophilic fascitis,
CC discoid lupus erythematosus, dermatomyositis, mixed connective tissue
CC discosis, liver fibrosis/cirrhosis, renal fibrosis, drug induced
CC fibrosis, plomerulonephritis, cystic fibrosis, drug induced
CC fibrosis, splomerulonephritis, cystic fibrosis, scleroderma, myocardial
CC fibrosis, fibrosis following a stroke or neurodegenerative disorders. The
CC of a region of the human mitochondrial genome in the exemplification of This invention relates to a novel method of in vitro diagnosis or

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RESULT 814
ADL97794/c
ID 97794/c

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                                                                                                                                                                                                                                                                              The invention relates to a method of producing (M1) a molecular array, involves: immobilizing to a solid phase a several molecules at a density which allows individual immobilized molecules to be individually resolved, where each molecule in the array is spatially addressable and the identity of each molecule is known or determined prior to immobilization; and optionally providing a molecular array comprising a several molecules immobilized to a solid phase at a density such that individual immobilized molecules are not capable of being individual resolved, and reducing the density of functional immobilized molecules in the array such that remaining individual functional immobilized molecules in the array such that remaining individual functional immobilized molecules are capable of being individually resolved, where each individual functional molecule in the resulting array is spatially addressable and the identity of each molecule is known or determined prior to the density reduction step. The array efficiently resolve complex samples, separate correct signals from erroneous signals, eliminates need for sample amplification, detects transient interactions or temporal characteristic amplification to the complex transient interactions or temporal characteristic and incomplex transient interactions or temporal characteris
   Best Loc
Matches
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Best Local Similarity
Matches 16; Conserv
                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 152; 219pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Producing molecular array by immobilizing to solid phase several known molecules at low density for allowing individual immobilized molecules be individually resolved and spatially addressable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004027093-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oligonucleotide probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADL97794;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADL97794 standard; DNA; 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 22 BP; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the invention.
                                                                                                                                                    Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-295431/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-SEP-2002; 2002GB-00021792.
26-SEP-2002; 2002GB-00022412.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-SEP-2003; 2003WO-GB004041.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ss; primer; molecular array.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (UYCH-) UNIV
                                         Local Similarity
                                                                                                                                                                                                                         single molecule processes. This sequence represents anoligonucleotide id in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               340 TICCTACCACTCCCCT 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     w
       17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
   Conservative
                                                                                                                                                BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHANCELLOR MASTER &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                A; 0 C; 0 G; 20 T; 0 U; 2 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; 11 C; 1 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.3%;
                                  81.0%;
                                                                            0.3%;
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       ;
Score 15.4; DB 1;
Pred. No. 8.8e+02;
1; Mismatches 3
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Pred. No. 8.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 22;
                                                                            DB 1; Length 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
       Indels
       0
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       Gaps
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RESULT 815
AAQ11215
ID AAQ112
XX AAQ112
XX AAQ112
XX DI 11-JUN
XX Beta 1
XX JP0304
XX JP0304
XX JP0304
XX JP03104
XX JP03
RESULT 816
AAQ10290
ID AAQ102
XX
AC AAQ102
XX
DT 05-APR
XX
Probe
XX
Probe
XX
Polyme
XX
Polyme
XX
PSP1091
PN EP4091
XX
PD 23-JAA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Oligo-nucleotide for detecting Bacillus cereus in specimen - has sequence complementary to sequence coding for B cereus beta-lactamase gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This oligonuclectide is used as a primer for a polymerase chain reaction (PCR), in conjunction with other primers (see AnQ11212-14 and AnQ11216), to selectively amplify a target sequence prior to its detection by electophoresis or chromatography. It has a seq- uence complementary to a portion of the B.cereus beta-lactamase gene. It is useful in the detection of Bacillus cereus bacteria in samples, e.g. urine or food. Segmentation of the control of the cereus bacteria in samples, e.g. urine or food. Segmentation of the control of the cereus bacteria in samples, e.g. urine or food. Segmentation of the control of the cereus bacteria in samples, e.g. urine or food.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oligonucleotide used in detection of Bacillus cereus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAQ11215 standard; DNA; 20
                                                                                         BP409159-A
                                                                                                                                                                                                           Polymerase chain
                                                                                                                                                                                                                                                                Probe to beta-lactamase gene of Bacillus cereus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                AAQ10290 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 1 A; 7 C; 3 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 1; 6pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-JUL-1989;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-MAR-1991
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                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                 05-APR-1991
                                                                                                                                                                                                                                                                                                                                                                                        AAQ10290;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-JUL-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (SHMA ) SHIMADZU CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5392 TAAAAAAATACAAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 J0349697,
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                                                                                                                                                                                                           reaction;
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                                                                                                                                                                                                               PCR;
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Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                        food poisoning;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e.g. urine or food. See
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23-JAN-1991

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RESULT 817
AAQ23565/c
ID AAQ255
XX AAQ255
XX AAQ255
XX DYe-CO
XX DYe-CO
XX DNA 89
XX DNA 89
XX DNA 89
XX DNA 89
XX EP4902
XX EP4902
XX 11-DEC
XX 1
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Best Local &
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ohashi T,
Aoyama Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Detection of bacterial species causing food poisoning chain reaction to amplify specific gene fragments.
                                                                                   New dye-coupled modified nucleosides, nucleotides and oligo:nucleotides useful for synthesis of antisense DNA and RNA strands in presence of template, also for in=vivo and in=vitro detection of genetic material.
                                                                                                                                                                                                                                                                                                                                                    06-DEC-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dye-coupled
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02-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAQ25565 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 1 A; 7 C; 3 G; 9 T; 0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Probes may be used to identify food using the polymerase chain reaction
                                          Example; Page 9; 17pp; German
                                                                                                                                                                                                                     Engels
                                                                                                                                                                                                                                                                                                         11-DEC-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                         EP490281-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA synthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAQ25565;
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18-JUL-1989;
                                                                                                                                                                             WPI; 1992-201578/25
                                                                                                                                                                                                                                                                (FARH ) HOECHST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-JUL-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (SHMA ) SHIMADZU CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; Page 53; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    64 TTCTGAAAGCCCATTCCCTG 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17;
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Tada J;
                                                                                                                                                                                                                   Herrlein M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3'-amino modified oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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(first entry)
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89JP-00185685.
89JP-00251400.
                                                                                                                                                                                                                                                                                                           90DE-04039488
                                                                                                                                                                                                                                                                                                                                                    91EP-00120935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RNA; antisense strands; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90EP-00113661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
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/note= "3-amino modified"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
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                                                                                                                                                                                                                        Konrad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 9.3e+02;
                                                                                                                                                                                                                     ,77
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Shirasaki Y,
                                                                                                                                                                                                                     Mag
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The sequence is an example of a

dye coupled 3'-amino modified oligo-

Query Match

Sequence

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A; 0 C; 0

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20 T; 0 U; 0 Other;

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Score 15.2;

DB 1; Length 20;

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RESULT 818
AAQ33554/c
ID AAQ335
XX AAQ335
XX AAQ335
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XX DT 25-MAR
DT 25-MAR
DT 25-MAR
DT 02-FEB
XX WCCO
XX PCR; 8
KW PCR; 8
KW Geneti
XX WO9213
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XX WO9213
XX WO9213
XX WFI; 15-JAN
XX I5-JAN
XX I5-JAN
XX I5-JAN
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XX WFI; 1
XX WF
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                                                                              The sequence is that of a bovine microsatellite sequence obtd. by CC screening a library of bovine MooI DNA fragments of between 250 and 500 CC bp with an (RC)15 and a (RC)15 oligonucleotide probe. One out of 50 CC clones cross-hybridised. Assuming independent distribution of CC in the bovine genome is estimated at *100, 000. The sequence information CC in the bovine microsatellites is summarised in the CC specification and indexed herein (see below). The sequences upstream and CC downstream of the microsatellite sequence were used to generate the CC required PCR primers for in vitro amplification of the corresp.

CC microsatellite (using the program OPTIPRIM). The microsatellites may be CC used to identify individuals, for parentage testing, and in the genetic CC mapping of economic trait loci, or genes involved the determinism of CC concepting. See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN field 1). See also AAQ33501-34437. (Updated on 25-MAR-2003 to correct PN field 1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Loc
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleotide, it can be used in the synthesis of DNA and RNA nucleosides, nucleotides and oligonucleotides and for the synthesis of opposite strands in the presence of a template strand and in fluorescence microscopic and macroscopic detection in vivo and in vitro of genetic material. It is labelled with a fluorescent dye. See also AAQ25566 and AAQ25567. (Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Table 7; Page 150; 517pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mapping, and selective breeding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Polymorphic bovine DNA markers - used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Georges M, Massey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             06-AUG-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR; selection; p
genetic mapping;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Microsatellite sequence from clone AGLA247.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAR-2003
02-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ33554;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAQ33554 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1992-284684/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JAN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JAN-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9213102-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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17; Conserv
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ilarity 85.0%;
Conservative (
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(first en
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; traits;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 92WO-US000340
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in genetic identification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cattle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ü
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            parentage;
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RESULT 819
AAQS8578
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                  Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                The inventors claim a method of transporting a nucleic acid deriv. a membrane which comprises using a receptor that uses salt bridgin, aromatic stacking, H bonding and chelation to recognise the nucleic deriv. AAQ56305, AAQ58577-86 are nucleic acid derivs used in the examples. (Updated on 25-MAR-2003 to correct PN field.)
  Oligonucleotide ligand; steroid hormone; hapten; immobilisation;
                                                                              25-MAR-2003
24-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transport of nucleic acid derivs. across membranes - which use salt bridging, aromatic stacking, hydrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                      Alpha-anomeric oligonucleotide ligand 1803 for oestradiol hapten.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example; Table 1, page 38; 103pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13-AUG-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-MAR-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
21-AUG-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAQ58578 standard; RNA; 20
                                                                                                                                      AAQ94205;
                                                                                                                                                                            AAQ94205 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                receptor.
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                                                                                                                                                                                                                                                                                              5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rebek J,
                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  synthetic RNA oligo which is a target nucleotide for a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                            (revised)
(first entry)
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(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nucleic acid;
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                                                                                                                                                                                                                                                                                                                                                                      Score 15.2;
Pred. No. 9.
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0; Mismatches 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            transport;
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RESULT 821
AAQ75585/c
ID AAQ755
XX AAQ755
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XX CA-AUG
AC AAC755
XX AAQ755
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        oligonucleotides (AAQ94201-Q94205) were synthesised for use as ligands. The ligands are covalently linked to a hapten (esp. a steroid hormone) to form a conjugate which is then immobilised on a solid support for interaction with antibodies against the hapten. Nucleic acid ligands are less likely to be recognised by the antibodies than are peptide ligands and nucleic acids are also less likely to undergo intramolecular organisation which interferes with accessibility of the hapten to the antibodies. For immunodiagnosis of oestradiol, the active hapten oestradiol-6-carboxymethoxime-N- hydroxysuccinimide ester was used.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Assay device for hapten or its specific antibodies - comprises support having competitive reagent immobilised via nucleic acid ligand to improve orientation and accessibility.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
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                                    aggregate;
                                                            Analysis;
                                                                                              Reverse transcription primer used in cDNA analysis technique.
                                                                                                                                      04-AUG-1995
                                                                                                                                                                            AAQ75585
                                                                                                                                                                                                                AAQ75585 standard;
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(KURF/)
(BATT/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUN-1993;
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KURFURST R.
BATTAIL N.
PIGA N.
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                                        gene expression; reverse; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                      (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
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                                                                                                                                                                                                                DNA;
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                                                                                                                                      entry)
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Pred. No. 9.3e+02
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                                                            transcription; primer; cDNA;
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RESULT 822
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XX AAAly8
AX AAAly8
KW AAAly8
KW AGGREG
XX JP0630
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Best Local S
Matches 17
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 A method for the analysis of cDNA comprises (a) preparing an aggregate double-stranded cDNAs by using an aggregate of mRNAs and a plural type labelled reverse transcription primers (GENESEQ files AAQ75547-Q75798)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure, Page 5; 11pp; Japanese.
                                                                                      Analysis of cDNA and gene expression - by digestion with restriction enzymes.
                                                                                                                                                                                      16-APR-1993;
                                                                                                                                                                                                                                                01-NOV-1994.
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                                                                                                                                                                                                                                                                                                        Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAQ75568 standard; DNA; 20 BP
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by digestion with restriction enzymes.
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                                                                                                                                WPI; 1995-018287/03.
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                                                                                                                                                                                                                                                                                                                                   aggregate;
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                                                                                                                                                                                                                                                                                                                                                                              Reverse
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                                                                                                                                                                                                                                                                                                                                                                           transcription primer used in cDNA analysis technique.
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                                                                                                                                                                                                                                                                                                                                   gene expression; reverse transcription;
; restriction enzyme; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  be used to analyse gene expression rapidly and
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                                                          Page 5; 11pp;
                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                             TELEGRAPH & TELEPHONE CORP
                                                                                                                                                                                      93JP-00112515.
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                                                          Japanese.
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Pred. No. 9.3e+02;
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RESULT 823
AAQ904405/c
ID AAQ904
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XX AAQ904
XX AAQ904
XX BA-JAN
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T2 (8y
XX T2; HL
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Best Local S
Matches 17
                                                         The sequences represented by, AAQ90402-15 are synthetic DNA probes containing 5' amino termini. The sequences shown in AAQ90390-401 are synthetic DNA probes with 3' ribonucleoside termini. These sequences were specific for the polymorphisms of HLA gene dQa. The sequences were used in the device of the invention. This is a self-addressable electronic device (SAED) that can be used to carry out multi-steep and multiplex reactions, such as nucleic acid hybridisations. The advantages of this method are that these reactions can be carried out with complete and precise electronic control, and that the rate, specificity and sensitivity of these reactions are greatly improved at micro-locations
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                                                                                                                                                                                                                                                                                                                                                                                                                                          New self-addressable electronic devices - used for multi-step and multiplex reactions such as DNA hybridisation(s), clinical diagnostics and bio:polymer synthesis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            aminolink2 Thymine; allows binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ່ຫຼ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.2; DB 1;
Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amino terminal
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Best Local Similarity

0.3**%**; 85.0**%**;

Score Pred.

15.2; DB 1; No. 9.3e+02; DB 1;

Length 20;

Query Match

Sequence 20

BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;

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RESULT 825
AAV07752/c
ID AAV07752 standard; DNA; 20 BP.
XX
AC AAV07752;
XZ
DT 07-DEC-1998 (first entry)
XX
DY
DY
Nosphorothioate oligonucleotide
XX
XX
XX
XX
phosphorothioate; sulphurisatior
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AAT33632/c
ID AAT336
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                                                                                                                                                                                                                                Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                         A PCR primer (AAT33632) is based on rat oncofoetal protein p65 cDNA (see also AAT33630). It was used as the antisense primer together with 5'AmpliFINDER anchor primer (Clontech) to amplify cDNA from the human breast cancer cell line MCF-7. A cDNA clone (AAT33631) coding for human p65 was isolated. p65 is useful as a tumour marker (see also AAW04165).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oncofoetal protein p65; tumour marker; breast cancer; prostate; ovary cancer; diagnosis; prognosis; probe; primer; PCR;
 phosphorothioate; sulphurisation; heterocycle; automated synthesis;
                                                                                                                                                                                                                                                                                     Sequence 20 BP; 4 A; 6 C; 8 G; 2 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                         Example 8; Page 25; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acid encoding the p65 oncofoetal protein and related hybridisation probes - for diagnosis of cancer, esp. where relatsteroid hormone expression, and for risk assessment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hanausekwalaszek M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-MAR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9629402-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tumour marker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
12-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT33632;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT33632 standard;
                           Phosphorothioate oligonucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (TEXA ) UNIV TEXAS SYSTEM.
                                                                                                                                                                                                                                                                                                                Updated on 25-MAR-2003 to correct PI field.)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5393
                                                                                                                                                                                             3119 CCCTGACCGAGCTGGACCTG 3138
                                                                                                                                                                              20 CCCGGTCCTAGCTGGACCTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
(first en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            p65 cDNA antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95US-00405648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                96WO-US002562.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reaction; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                             0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Slaga TJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        쁑
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                              Score 15.2; DB 1; Length 20; Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5412
                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Walaszek
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primer.
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                                                                                                                                                                                                                                  Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   where related
                                                                                                                                                                                                                                0;
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                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer;
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  RESULT 826
AATG3649/c
ID AATG36
XX AATG36
XX AATG36
XX AATG36
XX AATi-H
XX AATi-H
XX AATise
KW AATise
KW AATise
KW AATise
XX YD0905
XX JP0905
XX JP0905
XX 25-FEB
XX 09-AUG
                                                                                                                                                                                                                                                                                                                                                                                                            WXSXEEFFEXRXGXGXGXGXGXGXGFFXXgXGCCCCCCCXXXX
                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention provides a method for sulphurising phosphorus-containing compounds. It comprises contacting the phosphorus-containing compound which a 1,2,4-dithiazolline-5.5-dione compound or a 3-substituted-1,2,4-dithiazollin-5-one compound. The method is especially useful for incorporation of phosphorothioatte linkages into biologically important molecules such as DNA, RNA and phosphopptides. Molecules containing such linkages are useful e.g. as antisense compounds for inhibiting gene expression, as reagents for studying DNA-protein or RNA-protein interactions, or as catalytic RNA. The present sequence represents an oligonucleotide with phosphorothioate linkages prepared by the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sulphurisation of phosphorus-containing oligo:nucleotide(s) - by contacting the containing five-membered heterocycle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                              06-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 1 A; 0 C; 0 G; 0 T; 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antisense; EDITH; Beaucage reagent; 88
    09-AUG-1995;
                              25-FEB-1997
                                                       JP09052898-A
                                                                                  Synthetic.
                                                                                                          antisense; complementary; tax gene; inhibit; HTLV-1;
human T-cell lymphotropic virus type 1; viral antige
                                                                                                                                                  Anti-HTLV antisense reference oligonucleotide
                                                                                                                                                                                                        AAT63649;
                                                                                                                                                                                                                                   AAT63649 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 7; Page 30; 51pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Barany G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (MINU ) UNIV MINNESOTA.
(LOUU ) UNIV LOUISIANA STATE & AGRIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                            5392 TAAAAAATACAAAAAGAA 5411
                                                                                                                                                                                                                                                                                                     20
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                                                                                                                                                                                                                                                                                                   TAAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96US-00641920.
     95JP-00224606.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97WO-US007118.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'note= "phosphorothioate internucleotide linkages"
                                                                                                                                                                                                                                   DNA;
                                                                                                                                                                                                                                                                                                                                                                   0.3%; Score 15.2; DB 1; 85.0%; Pred. No. 9.3e+02;
                                                                                                                                                                                                                                   20
                                                                                                                                                                                                                                   ₽P
                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        χu Q,
                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chen L,
                                                                                                                                                                                                                                                                                                                                                                                                            G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       compounds, e.g. compound with a
                                                                                                                                                                                                                                                                                                                                                                                                            0 Other;
                                                                                                                                                     품.
                                                                                                            antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hammer RP
                                                                                                                                                                                                                                                                                                                                                                                Length 20;
                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          þ
                                                                                                            expression;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          di:sulphide-
                                                                                                                                                                                                                                                                                                                                                          0,
                                                                                                                                                                                                                                                                                                                                                          Gaps
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RBSULT 827
AAV34591
ID AAV345
XX AAV345
AC AAV345
XX 25-AUG
XX Mycoba
KW Mycoba
KW Mycoba
KW Mycoba
XX WO9806
XX WO9806
XX WO9806
XX INTERPOLATION
XX INTERPOLA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mycobacterium vaccae; antigen; therapy; prevention; cytokine production; M. avium; M. tuberculosis; immune response enhancer; cell proliferation; mycobacteria infection; vaccine; cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  M. vaccae antigenic sequence hybridising oligo AD12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 0, A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                   Mycobacterium vaccae polypeptides - used to develop products for use detection, therapy and prevention of mycobacteria infections or as in response enhancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-AUG-1996;
12-JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9808542-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV34591;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAV34591 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 8; 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anti-HTLV-1 anti-sense oligo:nucleotide - is complementary to region of tax gene from human T-cell lymphotropic virus type 1 and inhibits viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-AUG-1995;
                                                                                                                                                                                                                                                                                                                    Tan P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mycobacterium vaccae
                                                                                                                                                                                                                                              WPI; 1998-216926/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SOYA-) SOYAKU GIJUTSU KENKYUSHO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    expression.
                                                                                                                                                                                                                                                                                                                    Hiyama J,
                                                                                                                                                                                                                                                                                                                                                                                      GENESIS RES & DEV CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95JP-00224606
                                                                                                                                                                                                                                                                                                                                                                                                                                                           96US-00705347.
97US-00873970.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97WO-NZ000105
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                                                                                                                                                                                                                                                                                                                    Visser E, Skinner MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.2;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ž
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
                                                                                                                                                                                                                                                                                                                           Scott LM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                    Prestidge RL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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                                                   Mycobacterium vaccae antigens. The invention provides M. vaccae polypeptides that comprise an immunogenic portion of a soluble M. vaccae antigen, or a variant, where the antigen induces an immune response in patients previously exposed to a mycobacterium. Such M. vaccae polypeptides can be used in methods for enhancing non-specific immune response. The methods and products can be used for the detection, treatment and prevention of infectious diseases caused by mycobacteria such as M. vaccae, M. avium or M. tuberculosis. The products also have the ability to induce cell proliferation and cytokine production (e.g. interferon-gamma and interleukin-12 production) in T cells, NK cells, S cells, or macrophages. They can be used for enhancing immune responses for use in vaccines or immunotherapy of infectious diseases and cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                               This oligonucleotide is used in the DNA cloning strategies of the
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Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
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Query Match Local 17; Conser Conservative 85.0%; <u>,</u> Score 15.2; DB 1; Pred. No. 9.3e+02; Mismatches 1; Length 20; Indels <u>.</u> 0

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                         5393 ААААААТАСААААААДАА 5412
 AAAAAAAAAAAAAAAAAAA 20
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Adapter primer oligonucleotide #12 for CAG repeat analysis 10-MAR-1999 AAV68373 AAV68373 standard; DNA; 20 (first entry) ВÞ

CAG repeat; human; genome analysis; adapter primer; medical diagnostic; nucleic acid analysis; variation assessment; neurological disease; Huntington's chorea; PCR suppression; ss.

WO9849345-A1

05-NOV-1998

29-APR-1998; 98WO-US008616

29-APR-1997; 97US-0045078P

(UXBO-) UNIV BOSTON

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WPI; 1998-594983/50

Analysing nucleic acid samples - using amplification primers which contain CAG or CTG tri:nucleotide repeats for differential display samples from different sources. of.

Example; Page 31; 44pp; English.

This sequence represents an adapter primer oligonucleotide. It was used to isolate CAG repeat containing sequences from the human genome to test the method of the invention. The method is for analysing nucleic acids, a sample, and comprises: (a) providing a sample containing nucleic acid, a first oligonucleotide primer comprising a CTG repeat, a second oligonucleotide primer comprising a CTG repeat, a second oligonucleotide primer comprising a CTG repeat and a polymerase and PCR reagents; (b) preparing said nucleic acid so that it is amplifiable; (c) amplifying the nucleic acid with the first and second primers; and (d) detecting the amplified product. The method is used to distinguish between the expression of genes in two or more biological samples; e.g. body fluids, cells, solid tissue or solid and liquid foods. It can be not a second primer and a polymerase and second primers. medical diagnostics, e.g. to differentiate between normal and ä

Example 8; Page 99; 153pp; English

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RESULT 829
AAT86606/c
ID AAT866
XX AAT866
XX AAT866
XX AAT866
XX Oligon
XX Capill
KW Capill
KW polyac
XX Synthe
PN W09745
XX W04-DEC
XX O4-DEC
XX HOVS
XX HOVS
XX HOVS
XX WHI; 1
XX Separa
PT Affini
PT target
XX WPI; 1
XX Separa
PT affini
CC For the ro
CC capill
CC splitt
CC for in
CC detect
CC for in
CC for in
CC for in
            CC process using capillary affinity gel electrophoresis. The invention of clectrophoresis. The invention of clectrophoresis. The invention of clectrophoresis triped target molecules of an analytical mixture. It comprises capillary affinity gel clectrophoresis using a capillary tube which is at least parely filled of the polymer gel. Receptors for target molecules are covalently bound of the polymer gel. Receptors for target molecules are covalently bound of the polymer. An electric field of at least 50 volts/cm is applied. The coapillary tube is charged with the analytical mixture. In a first of separation stage, the target molecules in the mixture are bound to the coapillary tube is charged molecules in the mixture are bound to the coapiliary tube is components are eluted, optionally whilst splitting of the target molecules for the receptor is eliminated and the target molecules are eluted and components of approaches is useful for selective separation and/or determination of charged organic compounds, such as oligonucleotides, peptides or carbohydrates. It may be used, e.g. for isolation of specific proteins are carbohydrates. It may be used, e.g. for isolation of specific proteins are carbohydrates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Separation of electrically charged target molecules - by capillary affinity gel electrophoresis using polymer-gel to which receptors for target molecules are bound.
                                                                                                                                                                                                                                                                                                                                                                                                                        A mixture of oligonucleotides (AAT86604-7) were separated by a new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Muscate A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24-MAY-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Capillary afinity gel electrophoresis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Oligonucleotide separated by capillary affinity gel electrophoresis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAT86606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20 BP; 1 A; 7 C; 6 G; 6 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    D3; Page 25; 41pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Paulus A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
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Pred. No. 9.3e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              separation; polymer-gel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 1;
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RESULT 830
AAX57365
ID AAX57365
AC AAX573
XX AAX573
XX AAX573
XX AAX573
XX Beaco
XX Beaco
XX Beaco
XX Inetal
XX INET
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Best Local Similarity
Matches 17; Conserv
                                                      This invention describes a novel beacon protein and its encoding nucleic acid which is expressed in larger amounts in hypothalamus tissue of obese animals compared to lean animals. Agonists and antagonists of beacon can be used to treat obesity, anorexia, weight maintenance, energy imbalance, diabetes, metabolic syndrome, dyslipidemia, hypertension and/or insulin resistance. The beacon protein, itself is used to manufacture medicaments for treatment of obesity, anorexia, energy imbalance or diabetes. The treatment is contemplated for both human and animals, such as those important to the livestock industry. The antibody and polynucleotides are useful in diagnosis of conditions as above. This sequence represents a PCR primer used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Beacon; hypothalamus; obese; lean; agonist; antagonist; treatment; obesity; anorexia; weight maintenance; energy imbalance; diabetes; metabolic syndrome; dyslipidemia; hypertension; insulin resistance medicament; livestock; diagnosis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX57365 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 7; Page 52; 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diabetes and metabolic energy levels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1999-337484/28
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11-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene encoding a beacon protein associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5393 AAAAAAATACAAAAAAGAAA 5412
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97AU-00000323.
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modulation of obesity,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        resistance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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Query Match Best Local S Matches 17

Similarity

85.0%; 0.3%;

Score 15.2; Pred. No. 9

.3e+02; DB 1;

Length 20;

Indels

0;

Gaps

0

0

Mismatches

Sequence 20

BP; 5

A; 9 C; 3 G; 3 T; 0 U;

0 Other;

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                                                                                                                                                      The invention relates to silyloxymethyl protected D- or L-ribonucleosides and their phosphonates (I), and silyloxymethyl halides (II). (I) are intermediates for synthesis of RNA-oligonucleotides with predetermined nucleotide sequence, particularly by machine synthesis. The groups specified above, apart from those on silyl, are those particularly for the cyanoethyl phosphoramidate coupling. Uses of the oligoribonucleotide products in diagnosis, therapy, and as research tools, are well known, and are mot dealt with in detail. (II) is an intermediate for (I). The silyloxymethyl halide reagent is easy to prepare, and yields are high. Introduction of the silyloxymethyl group into the ribonucleoside is simple and rapid, and the acetal bond formed does not migrate, eliminating particularly the prior art problem of 2' to 3' isomerisation. The methylenedioxy group spacer between the silyl group and nucleoside ring results in less steric hindrance than bulky direct silyloxy to provide, e.g., acid or base stability, and second, higher yields in coupling. Purer products are therefore obtained than in prior art, coupling. Purer products are therefore obtained than in prior art, coupling. Purer products and longer chains of oligoribonucleotides to be synthesised successfully, and in shorter times
                                                                             Query Match
Best Local 9
                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2-Silyloxymethyl ribonucleosides and their phosphonate derivatives high purity, use in machine synthesis of ribonucleic acids, enable oligonucleotide chain construction, and larger amounts.
                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Silyloxymethyl; cyanoethyl phosp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic RNA sequence produced by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 6; Page 25; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI, 1999-180963/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pitsch S, Weiss PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (PITS/) PITSCH S. (WEIS/) WEISS P A. (JENN/) JENNY L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-FEB-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO9909044-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX27533;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAX27533 standard; RNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1262 GCCTACAGCCCCACCACCAC 1281
                                5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                Similarity
                                                                                                                                20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              thyl; phosphonate; silyloxymethyl halide; diagnosis; ss; phosphoramidate coupling; isomerisation; steric hindrance.
                                                                                                                              BP;
                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                                             0.3%;
                                                                                                                              0 C; 0 G; 0 T;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
                                                               0;
                                                                              Score 15.2; DB 1;
Pred. No. 9.3e+02;
                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the method
                                                                                                                              20 U; 0 Other;
                                                                                              DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of the invention
                                                                 Indels
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RESULT 832
AAZO4702/c
ID AAZO470
AC AAZO470

RESULT 833
AXX27889
ID AAX278
XX
AC AAX278
AC AAX278
XX
DT 02-JUN
XX
DE Probe
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Best Local S
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17-DEC-1997;
04-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primers AAZ01426-Z06209 were used to amplify open reading frames (ORFS) of the genome of Chlamydia trachomatis (see AAZ01425). These ORFS encode polypeptides (see AAY36754-Y37949) which can be used as vaccines against Chlamydia trachomatis. Antisense and ribozyme sequences can also be used to control growth of the microorganism. Chlamydia trachomatis is responsible for a large number of diseases, e.g. eye diseases such as conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion conjunctivitis; genital diseases such as nongonococcal uretritis, penidymitis, cervicitis, salpingitis, perihepatitis, bartholinitis; poneumopathy in breast feeding infants; and venereal lymphogranulomatosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 7 A; 3 C; 7 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ04702 standard; DNA; 20
                                                                                           02-JUN-1999
                                                                                                                                                                                                        AAX27889 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 1710; 1755pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genome sequence of Chlamydia trachomatis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-371125/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9928475-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chlamydia trachomatis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bartholinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  paratrachoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Vaccine; eye disease; conventional trachoma; nonendemic trachoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR primer used to amplify an ORF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ04702;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                paratrachoma; inclusion conjunctivitis; genital disease; perihepatitis; nongonococcal uretritis; epidymitis; cervicitis; salpingitis; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                 5326 GCAGGCTTTCCAGTTTTTAC 5345
                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 97FR-00015041.
97FR-00016034.
98US-0107077P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pneumopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-IB001939.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВP
                                                                                                                                                                                                            ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.2;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of Chlamydia trachomatis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .3e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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Probe for human

CSR

protein coding

sequence.

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RESULT 834
AAZ11326
ID AAZ11326
ID AAZ11326
AC AAZ112
XX Mycob
XX Mycob
XX Mycob
KW Mycob
KW Mendi
KW Iesp:
KW Lesp:
KW Lesp:
KW Lesp:
KW Squa
XX Synt
OS Myco
PN WO9
XX X
PF 23-
XX
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents a probe for DNA encoding a human cellular stress response (CSR) protein of the invention. The CSR proteins are macrophage scavenger receptor proteins. The CSR proteins can be used in the treatment, gene therapy and diagnosis of diseases in which intracellular stress is important, such as arteriosclerosis, diabetic circulatory obstruction, and microbial infection. Expression of the proteins is induced in vivo in response to intracellular stress, and inhibits cell death as a result of such stress
                                                                                                                                                                       dendritic cell maturation; infectious disease; immune disorder; cancer; respiratory system; mycobacterial infection; allergy; tuberculosis; leprosy; sarcoidosis; lung cancer; asthma; skin disorder; psoriasis; dermatitis; eczema; alopecia areata; skin cancer; basal carcinoma;
                                                                                                                                                                                                                                                                    Mycobacterial 16S rRNA specific oligo AD12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 8 A; 3 C; 6 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nakamura Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cellular stress response protein; CSR1; CSR2; CSR3; human; macrophage; scavenger receptor protein; intracellular stress; arteriosclerosis; diabetic circulatory obstruction; microbial infection; probe; ss.
                                                                                                                                                                                                                                      Mycobacterium vaccae protein; antigen; T cell activation; cytokine;
                                                                                                                                                                                                                                                                                                    25-OCT-1999
                                                                                                                                                                                                                                                                                                                                                              AAZ11326 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 10; Page 167; 175pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scavenger receptor proteins - for treatment and diagnosis of disorders involving cell stress.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-FEB-1999
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                    23-DEC-1998;
                                                   01-JUL-1999.
                                                                                 WO9932634-A2
                                                                                                               Mycobacterium vaccae
                                                                                                                              Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                                                                                                                                            equamous cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (NISB ) JAPAN TOBACCO INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1999-181032/15
                                                                                                                                                                                                                                                                                                                                                                                                                                                         568 CTGAAGAAGGAGGAGCTGAA 587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGAACATGAAGGAGCTGAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tokino T;
                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                            carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        97JP-00233396.
98JP-00230121.
                      98WO-NZ000189.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                            melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.2;
Pred. No. 9.
                                                                                                                                                           PCR primer; ss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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RESULT 835
AAV64851
ID AAV648
XX AAV648
XX O5-FEE
XX O5-FEE
XX I6S r1
XX Synth
OS Synth
OS Synth
OS Bacil:
XX JP102
XX J
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Matches 17
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23-DEC-1997;
23-DEC-1997;
11-JUN-1998;
17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pharmaceutical compositions comprising the proteins or nucleic acid sequences encoding the proteins can be used for the treatment, prevention, and detection of disorders including infectious diseases, immune disorders and cancer. In particular, the compounds and methods used for treatment of diseases of the respiratory system, such as mycobacterial infections, asthma, allergies, tuberculosis, leprosy, sarcoidosis and lung cancers, and disorders of the skin such as psoriasis, atopic dermatitis, eczema, allergic contact dermatitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B. cereus 16S rRNA oligonucleotide primer #8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cells and natural killer cells, to stimulate the production of cytokines, to enhance the expression of co-trimulatory molecules on dendritic cells and monocytes, and to enhance dendritic cell maturation and function. The proteins can be expressed by standard recombinant methodology.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-430163/36.
                                                       WPI; 1999-038276/04.
                                                                                                                                                             30-APR-1997;
                                                                                                                                                                                                            30-APR-1997;
                                                                                                                                                                                                                                                                                                               JP10295377-A.
                                                                                                                                                                                                                                                                                                                                                                 Bacillus cereus.
                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    05-FEB-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAV64851 standard;
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alopecia areata, a
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                                                                                                       (QPPP ) QP CORP
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nes 17; Conserv
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97US-00997362.
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98US-00156181.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and skin cancers such as basal carcinoma, squamous
                                                                                                                                                                                                                                                                                                                                                                                                                                               detection; PCR; microbe;
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Pred. No. 9.3e+02;
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An oligonucleotide primer - useful for detection of Cereus microbes.

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RESULT 836
ANX21950/c
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XX ANX219
XX Human
XX Human
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                   This sequence represents an example of an antisense oligonucleotide of the invention. The oligonucleotides are 8-50 nucleotides in length, and are targeted to a nucleic acid encoding human B-raf and which is capable of inhibiting human B-raf expression. The oligonucleotides is used to inhibit the (abnormal) expression of human B-raf, to inhibit hyperproliferation of cells, to treat or prevent an abnormal proliferative condition, e.g. hyperproliferative disorders such as cancer (e.g. of the brain or nervous system), restenosis, psoriasis or a disorder characterised by T-cell activation and growth. They may also be used to diagnose these diseases, as well as atherosclerosis. The altisense oligonucleotides of the invention may be used to distinguish raf-associated tumours from tumours having other etiologies. The antisense oligonucleotides can also be used to quantify raf expression in assays
                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                 New antisense oligonucleotides - for modulation of human B-raf gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1999-120502/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          07-JUL-1997;
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hyperproliferative disorder; cancer; restenosis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-MAY-1999
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the presence of
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17; Conser
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Pred. No. 9.3e
0; Mismatches
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RESULT 837
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XX ANX962
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                                                                                                                                                                                                                                                                                                   AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990). C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAY34584-AAY3589) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions,
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                                                                                                                                                                                                    Sequence 20 BP; 1 A; 4 C; 6 G; 9 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                        especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genome
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04-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5412
                                             2046
                                                                                                 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence of Chlamydia pneumoniae
                                                ATCANACANAGAGCTCTGGG 2065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAATGAAAATAAAGGAATA 5431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAAGGAAAATAAATGAACA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      used to amplify an ORF of Chlamydia pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BP;
                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97FR-00014673.
98US-0107078P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-IB001890
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N
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                                                                                                                      0.3%;
85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 C; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20
                                                                                                 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 15.2; DB 1,
Pred. No. 9.3e+02;
0; Mismatches
                                                                                                                            Score 15.2;
Pred. No. 9
                                                                                                                         9.3e+02
                                                                                                                                                    B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
                                                                                                                                                    Length
                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                    20,
                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vaccine;
                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
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RESULT 838 AAX94976 ID AAX949

AAX94976 standard; DNA; 20

BP

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ARASULT 839
ARA40449
ID ARA404
XX ARA404
XX ARA404
XX IS Electo
XX Electo
XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAX91991-X97517 represent PCR primers used to amplify open reading frames and other nucleic acid sequences from the genome of Chlamydia pneumoniae (see AAX91990) C. pneumoniae causes respiratory disease such as pneumonia and bronchitis and is thought to be a contributing factor in heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema nodosum or pharyngitis. The polypeptides encoded by the open reading frames of the C. pneumoniae genome (see AAX94584- AAX95879) can be used in immunogenic compositions as vaccines. Vectors containing C. pneumoniae nucleotides sequences can also be used as immunogenic compositions, especially where the vector directs the expression of a neutralising epitope of C. pneumoniae
                                                                                                                        Blectrochemical detection; glucose; cholesterol; urea nitrogen;
bilirubin; uric acid; haemoglobin; lactic acid; body fluid; blood;
plasma; serum; urine; lymph diagnosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genome sequence of Chlamydia pneumoniae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
Chlamydophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis; sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine; neutralising epitope; PCR primer; ss.
                                                                                                                                                                                                                                              Blectochemical
                                                                                                                                                                                                                                                                                                         13-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                 AAA40449;
                                                                                                                                                                                                                                                                                                                                                                                                                         AAA40449 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 3 A; 1 C; 9 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Page 1712; Disclosure; 1912pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-357842/30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2547
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGCCTGTTAAGTGATGAGG 2566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGGCTGTTTAGTTATGAGG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                           detection method sample DNA target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97FR-00014673.
98US-0107078P.
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                                                                                                                                                                                                                                                                                                                                                                                                                         DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                            BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.3e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                               S
                                                                                                                                                                              This invention describes a novel method for quantitatively analysing a blochemical compound (I) which comprises contacting (I) with double of stranded DNA fixed to the surface of an electrode at their terminals in thick the presence of the electrode at their terminals in the compound and becomes reduced, and detecting electric potential to the electrode in the presence of an oxidase which oxidizes the biochemical compound and becomes reduced, and detecting electric current flowing between the electrode and a second electrode in the aqueous medium. The method is useful for detection of biochemical compounds such as glucose, cholesterol, urea nitrogen, blirubin, uric acid, haemoglobin and lactic acid in body fluids such as whole blood, plasma, serum, urine, and lymph for diagnosis of various diseases. The method allows detection of biochemical compounds quickly and easily with a high sensitivity using a simple apparatus. This sequence represents DNA fragment used as a target of the compound of the invention
                                                                        Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                              Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Quantitative analysis of a biochemical compound such as glucose, in bod a body fluid such as blood, comprising detecting enhanced electron transfer between an oxidase and a DNA-immobilized electrode, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ogawa M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-JAN-1999;
24-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-JAN-2000; 2000EP-00100126.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosis of disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 1; Page 8; 14pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (FUJF ) FUJI PHOTO FILM CO LTD.
                                   5393 ААААААТАСАААААСААА 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000-444372/39.
1 AAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Takenaka S,
                                                                          Conservative
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                                                                                        0.3%;
                                                                        0,
                                                                                        Score 15.2;
Pred. No. 9.
                                                                            Mismatches
                                                                                            9.3e+02
                                                                                                               DB 1;
                                                                                                           Length
                                                                                                                 20
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RESULT 840
ANA40448/c
ID ANA404
XX ANA404
XX IS-NOV
XX Electr
XX Flasma
XX Synthe
XX EP101E
XX EP101E
XX EP101E
XX EP101E
XX EP101E
XX O6-JAN
PR 06-JAN
PR 24-MA1
                                                                                                                                                                                                              Electrochemical detection; glucose; cholesterol; urea nitrogen; bilirubin; uric acid; haemoglobin; lactic acid; body fluid; blood;
                                                                                                                                                                                                                                                                                                                                                           AAA40448 standard;
                   06-JAN-1999;
24-MAY-1999;
                                                                                                                                                                                                                                                            Electochemical
                                                                07-JAN-2000; 2000EP-00100126.
                                                                                                                                                                                             plasma; serum;
                                                                                                                                                                                                                                                                                            13-NOV-2000
                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                               urine; lymph diagnosis;
                                                                                                                                                                                                                                                            detection method
                                                                                                                                                                                                                                                                                                                                                           DNA;
                                                                                                                                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                            fixed probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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RESULT 841
ABL41405
ID ABL414
XX ABL414
XX DT 07-MAY
XX Primer
XX V RUPSHOT
PR 02-MAN
XX V PR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This invention describes a novel method for quantitatively analysing a chiochemical compound (I) which comprises contacting (I) with double stranded DNA fixed to the surface of an electrode at their terminals in which electrochemically active threading intercalators are intercalated, in an aqueous medium under application of electric potential to the electrode in the presence of an oxidase which oxidizes the blochemical compound and becomes reduced, and detecting electric current flowing between the electrode and a second electrode in the aqueous medium. The method is useful for detection of blochemical compounds such as glucose, cholesterol, urea nitrogen, bilirubin, uric acid, haemoglobin and lactic acid in body fluids such as whole blood, plasma, serum, urine, and lymph for diagnosis of various diseases. The method allows detection of blochemical compounds quickly and easily with a high sensitivity using a simple apparatus. This sequence represents DNA fragment used as fixed probe DNA in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Quantitative analysis of a biochemical compound such as glucose, in bod a body fluid such as blood, comprising detecting enhanced electron transfer between an oxidase and a DNA-immobilized electrode, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Universal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-MAY-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                              02-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                     02-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Primer; universal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 7; 14pp; English.
                                                          Disclosure, Page 10;
                                                                                                                                                                                                                                           Kang HW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KR98082207-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABL41405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABL41405 standard; DNA; 20 BP
                                                                                                                     Universal primer
                                                                                                                                                                                WPI; 2000-069105/06
                                                                                                                                                                                                                                                                                                      (RURA-)
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                                                                                                                                                                                                                                                                                                      RURAL DEV ADMINISTRATION.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                              97KR-00016981.
                                                                                                                                                                                                                                                                                                                                                                                                                        97KR-00016981.
                                                                                                                        for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           primer; genetic diagnosis;
                                                                                                                                                                                                                                           Eun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for the genetic diagnosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
                                                       21pp; Korean.
                                                                                                                  genetic diagnosis
                                                                                                                                                                                                                                           ₹,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                           Koh SJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 15.2; DB 1;
Pred. No. 9.3e+02;
0; Mismatches 3
                                                                                                                        얁
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                                                                                                                     species
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The invention relates to universal primers for the genetic diagnosis

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                                                                                    This invention describes novel antisense nucleic acids (I) targeted CC against a specific nucleic acid sequence within human ICAM-1. The CC products of the invention have cytostatic, anti-inflammatory, CC dermatological, antiviral, antirheumatic, antiarthritic, CC immunosuppresive, antipsoriatic, antiasthmatic, antitussive activity and CC can be used for antisense therapy; gene therapy. The antisense nucleic CC acids or vectors are used to inhibit or eliminate acute or chronic CC inflammatory diseases of humans, virus infection, metastasis, inflammation of the skin, mobilization of hematopoletic stem cells, CC coughs and all biological process under the influence of ICAM-1, CC coughs and all biological process under the influence of ICAM-1, CC ulcerative colitis, rheumatoid arthritis, lupus erythematosus, organ CC rejection, graft-versus-host reaction after bone marrow transplantation, CC psoriasis, asthma and neurodermatitis. In particular, the antisense CC disease. The antisense used to treat acute or chronic inflammation of gume CC disease. The antisense nucleic acids repulate or suppress ICAM-1 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    anti-inflammatory; dermatological; antiviral; antirheumatic; asthma; antiarthritic; immunosuppresive; antipsoriatic; antiasthmatic; antiasthmatic; antitussive gene therapy; inflammatory disease; virus infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   species. The current sequence represents a universal primer for the genetic diagnosis of species
                                   expression. The antisense nucleic acids or vectors can suppress immune reactions against gene therapy using vi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel antisense nucleic acids targeted to specific sequences within the ICAM-1 gene, useful for treating inflammation and metastasis.
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04-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-SEP-1999;
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98DE-01056138.
99DE-01026110.
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Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred.
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Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method for the determination of a predisposition to glaucoma. The method comprises amplifying a GLClA gene with a primer pair selected from the sequences shown in ARZ37981-Z38008. The primers are used to determine whether a subject has or has the potential to develop primary open wide angle glaucoma. Sequences ARZ37981-Z38008 represent primer pairs specific for human GLClA gene exon sequences. These primers were used for the GLClA assay to identify
                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 4 A; 8 C; 4 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stone EM,
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                                                                                                                                                                                                                                                                                                                                                                                             patients having a predisposition to glaucoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 1; Page 131; 137pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Determination of a predisposition to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         07-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Glaucoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-FEB-2000
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les 17; Conserv
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gene; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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                                                                                                                                                                                                                                                              Score 15.2; DB 1;
Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                        Mismatches
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5196 TCAGCGTGGGAGGCCACGTG 5215

Query Match
Best Local Similarity
Matches 17; Conserv

Conservative

0;

Mismatches

0.3%;

Score 15.2; DB 1; Pred. No. 9.3e+02;

Length Indels

20;

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Gaps

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Ashkenazi AJ, Baker KP,
Ferrara N, Filvaroff E,
Goddard A, Godowski PJ,
Kljavin IJ, Kuo SS, Napi
Stewart TA, Tumas D, Wil
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14-MAY-1999;
23-JUN-1999;
26-JUL-1999;
29-OCT-1999;
30-NOV-1999;
                        AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence tag) sequences which encode secreted or transmembrane PRO polynucleotides and polypeptides have cytostatic activity. The polynucleotides and polypeptides can be used for detecting the presence of PRO polypeptides in samples, for linking bioactive molecules to cells and for modulating biological activities of cells, using the polypeptides for specific targeting. The polypeptide targeting can be used to kill the target cells, e.g. for the treatment of cancers. The polypeptide pairs provide specific targeting of bioactive molecules to cells. AAC78600 to AAC78987 represent PCR primers and probes used in the isolation of the PRO polynucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                         30-DEC-1999; 99WU-UUU-19
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000277.
06-JAN-2000; 2000WO-US000376.
 Sequence
                                                                                                                                                                                                                                                                                           WPI; 2000-611443/58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR-1999;
12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human PRO772 reverse PCR primer
                                                                                                                                                                                                      Example 114; Page 342; 636pp; English
                                                                                                                                                                                                                                               Novel PRO polypeptides and polynucleotides used in detection methods, to target bioactive molecules to specific cells, and to modulate cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-FEB-2000; 2000WO-US004341.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200053756-A2
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                                                                                                                                                                                                                                                                                                                                                                                                            (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                secreted protein; transmembrane
   20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                creted protein; transmembrane protein; PRO; EST; cyt-
sequence tag; detection; cancer; PCR primer; probe;
BP; 4 A; 7 C; 4 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99US-0131445P.
99US-0134287P.
99US-0141037P.
99US-0145698P.
99US-0162506P.
99WO-US028813.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US028551.
99WO-US028565.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US031243.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US005028.
                                                                                                                                                                                                                                                                                                                   KR, Botstein D, Desnoyers L, Eaton DL;
f E, Fong S, Gao W, Gerber H, Gerritsen ME;
pJ, Grimaldi CJ, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt
, Williams PM, Wood WI;
 5 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID
 0 U; 0 Other;
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RESULT 845
AAZ91117/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to novel saturated and unsaturated abletane derivatives. The new compounds may be used directly or indirectly in the development of new diagnostic tests, to follow infections, especially viral infections, to follow and/or measure chemical products, especially potential pollutants. In diagnostic tests they may be used as markers, or to form a universal solid phase after immobilization on a solid support, to produce monoclonal antibodies or polyclonal antibodies having diagnostic uses. The oligonucleotides AAZ91113-Z91117 represent examples of sequences that can be labeled with the new abletane derivatives. The new derivatives may be used to substitute for biotin in diagnostic tests, but because they are not found naturally in humans the risk of potential interactions with biological molecules is eliminated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Saturated and unsaturated derivatives of abletic acid and their conjugated derivatives with natural and synthetic polymers, hav diagnostics, chemical reactions and analysis.
     Wolframin; human; Wolfram Syndrome;
                                                                                                                                                                                                                                                                  AAZ88913 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 5; Page 20; 39pp; French.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-JUL-1998;
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                                                                                         Human wolframin exon
                                                                                                                                                 26-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FR2781802-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ91117;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (INMR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5393 ААААААТАСААААААСАА 5412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Piga N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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transmembrane protein; dia psychiatric disease; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
85.0%;
                                                                                      8-3 PCR primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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Pred. No. 9.3e+02
0; Mismatches
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diagnosis; therapy;
ene therapy; primer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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        88
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention describes a novel human transmembrane protein, Wolframin. Wolframin and DNA encoding it are useful for diagnosis and/or therapy of Wolfram Syndrome, in particular where there is a tendency to psychiatric disease. The products of the invention can be used for gene therapy. This sequence represents a PCR primer used in the amplification of the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wolframin, a transmembrane protein and related DNA useful for diagnosis and therapy of Wolfram Syndrome, especially where there is a tendency to psychiatric disease.
     WPI; 2000-558188/51.
                                                 Manoharan M, Maier MA;
                                                                                                                                                     12-FEB-1999;
                                                                                                                                                                                                    11-FEB-2000; 2000WO-US003543.
                                                                                                                                                                                                                                                      17-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                    modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2'-Methoxyethoxy-modified oligonucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-1998;
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                                                                                                      (-SISI)
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                                                                                                      PHARM INC.
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/note= "2'-methoxyethoxy modified thymidine"
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85.0%;
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Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC compounds and methods for the preparation of mixed backbone oligomeric, cor chimeric, compounds having phosphodiester internucleoside linkages in caddition to phosphorothioate and/or phosphoramidate internucleoside (CC linkages. The methods also include incorporation of boranophosphate (CC linkages. The methods include incorporation of boranophosphate internucleoside linkages. The methods utilize H-phosphonate intermediates (CC that are coupled together forming contiguous regions of 1 or more H-CC phosphonate internucleoside linkages. Each contiguous region is (CC subsequently oxidized to phosphodiester, phosphorothioate, phosphoroamidate or boranophosphate internucleoside linkages prior to (CC further elongation. Mixed backbone oligomeric compounds are prepared in (CC clips manner by oxidizing adjacent regions with different reagents. (CC clips that oxidize a region of 1 or more H-phosphonate internucleoside (CC linkages without degrading existing linkages that have been previously (CC oxidized. The oligonucleotides obtained are useful as primers in PCR, CC probes, linkers, gene fragments and for other diagnostic tests on e.g. (CC oxidized tissue, fluid, cells etc., as research reagents, and as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAK99515 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence is that of a phosphodicater oligonucleotide containing 20 T nucleobases, 19 having a 2'-methoxyethoxy group on its ribosyl sugar moiety. It is an example of an oligomeric compound produc according to the methods of the invention. The invention provides
                             Disclosure; Page 4; 10pp; Korean
                                                                                                                                                           WPI; 2000-609364/58
                                                                                                                                                                                                                                                                                                                                                07-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                          07-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     KR99079605-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Polymerase chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    URP oligonucleotide relating to a primer of plasmid subspecies 2F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAK99515;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 12; Page 34; 49pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Preparation of mixed backbone oligomeric compounds useful for diagnostic tests, involves oxidation of H-phosphonate linkages to phosphodiester internucleoside linkages.
                                                                                             Polymerase chain reaction (PCR) primer of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antiviral agents
                                                                                                                                                                                                                                                                                   (RURA-) RURAL DEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first
                                                                                                                                                                                                                  SJ,
                                                                                                                                                                                                                                                                                                                                                   98KR-00012278
                                                                                                                                                                                                                                                                                                                                                                                                             98KR-00012278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reaction; PCR; primer; plasmid subspecies 2F; URP;
                                                                                                                                                                                                                                                                                      ADMINISTRATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 15.2;
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9.3e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1; Length 20;
                                                                                             plasmid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                             eubap.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                вb
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RESULT 849
AAC58208/c
ID AAC582
XX AAC582
XX AAC582
XX Human
DE Human
XX Human;
KW Lumoux
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COS Homo s
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YX Homo s
XX OS-OLO
PR 12-API
PR 29-API
PR 29
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Best Local S
Matches 17
                     The present invention describes an isolated antibody (Ab) that binds to one of the human proteins (P) designated PRO213, PRO1330, PRO1449, PRO237, PRO324, PRO351, PRO351, PRO351, PRO351, PRO351, PRO351, PRO351, PRO531, PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a polymerase chain reaction (PCR) primer of the plasmid subspecies 2F. This polynucleotide sequence represents a URP oligonucleotide relating to the PCR of the 2F plasmid subspecies of the
                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated antibody for use in compositions and methods for the diagnosis and treatment of neoplastic cell growth and proliferation mammals, including humans, and in monitoring tumor treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-MAR-1999;
21-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; tumour; diagnosis; neoplastic disease; identification; cancer; tumourigenesis; detection; neoplastic cell growth; proliferation; cytostatic; antiinflammatory; immunomodulatory; inflammatory disorder immunological disorder; hybridisation; probe; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human PRO772 reverse PCR primer SEQ ID NO:119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAC58208,
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                                                                                                                                                                                                                                                                                                                                                   Example 14; Page 118; 195pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2000-572269/53.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-DEC-1999;
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30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-SEP-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GETH )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens.
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17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                    including humans, and in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGTGGGACCAGTTCCTGGG 3932
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Desauvage FJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BP; 2 A;
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99WO-US023089.
99WO-US028313.
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99WO-US031274.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20
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Pred. No. 9
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Matches 17; Conserv
Query Match
Best Local Similarity
                                                                                              The present sequence is that of primer betaseq2, which was used with primer betarev (see AAA9972) in the PCR amplification of a 416 bp fragment of mouse vascular-endothelial protein tyrosine phosphatase (VE-PTP) cDNA (see AAA88865). PCR analysis was used to examine VE-PTP expression in mouse tissues and during mouse embryonic development. In adult mouse, VE-PTP was strongly expressed in brain as well as in lung and heart. In embryonic development, VE-PTP increased from day E11 to day E17. VE-PTP polypeptides, nucleic acids and ligands are used in claimed methods for detecting and modulating receptor tyrosine kinase Tie-2 activity. This allows the monitoring or modulation of angiogenesis, induction or inhibition of vascular growth or remodelling and blood reseal methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vascular-endothelial protein tyrosine phosphatase; VE-PTP; mouse; Tie-receptor-type tyrosine kinase; antiangiogenic; antitumour; antimetastatic; tumour; metastasis; anglogenesis; therapy; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             can be identified and used as antagonists. Benign or malignant tumours, inflammatory disorders and immunological disorders can be treated. AAC58123 to AAC58224 represent hybridisation probes and PCR primers used in the isolation of the human PRO sequences. AAC58225 to AAC58241 and AAB24041 to AAB24056 represent human PRO polynucleotide and protein
                                                  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                Monitoring or modulating regulating tumor growth,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fachinger G,
                                                                                                                                                                                                                                                                                                               Example 2; Page 4; 60pp; English.
                                                                                                                                                                                                                                                                                                                                                   phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2000-648932/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EP1046715-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein tyrosine phosphatase PCR primer betaseq2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAA88871 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequences given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      that inhibit the expression or activity of the identified polypeptides
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                                                                                     maturation,
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                                                    BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99EP-00108074.
                                                  1 A;
                                                                                     and inhibition of
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0.3%;
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                                                 11 C; 2 G; 6 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Deutsch
                                                                                                                                                                                                                                                                                                                                                                Tie-2 tyrosine kinase activity, useful e. using vascular-endothelial protein tyrosi
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Pred. No. 9.3e+02;
Score 15.2; DB 1;
Pred. No. 9.3e+02;
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                DB 1;
                                                                                   growth
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                Length
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                                                                                     မ္
                                                                                     metastasis
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n tyrosine
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RESULT 852
AAD14829
ID AAD148
XX
AC AAD148
XX
DT 01-NOV
XX

standard;

DNA,

20

BP

01-NOV-2001 AAD14829; AAD14829

(first entry)

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RESULT 851
AAA574408/c
ID AAA574
XX AAA574
XX AAA574
XX Beta-a
XX Hyperl
XX Cricet
XX Hyperl
XX Hyperl
XX CORS
XX CORS
XX Gros C
XX Gros C
XX Gros C
XX Gros C
XX Produc
PR 18-DEC
XX Hyperl
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Matches 17
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                                                                                                                                                                                                                                                              reactions was performed to analyse and compare the products of adipose tissue. The specification describes a method for the production of adipocytes from non-differentiated fibroblasts. The method comprises culturing confluent fibroblasts that stably express the human beta3 adrenergic receptor, or its W64R mutant, in a medium containing agents that stimulate differentiation of the cells. The adipocytes are useful models for studying biological mechanisms in adipocytes, and to screen for agents potentially useful in treatment of obesity, diabetes and hyperlipidemia, specifically antilipid agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Beta-actin; adipose tissue; adipocyte; fibroblast; beta3 adrenergic receptor; cell differentiation; chyperlipidemia; antilipid; PCR primer; ss.
                                                                                                                                                                                                                     Sequence 20 BP; 3 A; 3 C; 9 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          potential anti-obesity agents, lexpressing the beta3 adrenergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Production of adipocytes from fibroblasts, useful e.g. for screeni potential anti-obesity agents, by culturing confluent cells stably
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2000-482482/42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gros J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-DEC-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PCR primers AAA57407-08 were used to amplify DNA encoding beta-actin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1; Page 8; 20pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PCR primer for DNA encoding beta-actin.
                                                    1262 GCCTACAGCCCACCACCAC 1281
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GGCTACAGCTTCACCACCAC 1
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                                                                                                          Conservative
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Pred.
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                                                                                                                                  15.2; DB 1
No. 9.3e+02
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                                                                                                                                                            Length
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antisense therapy; Human; glycogen

synthase

nthase kinase 3 alpha; antidiabetic; cytostatic; diabetes; hyperproliferative disorder; inflamma

disorder;

infection; inflammation; Human

glycogen

synthase kinase 3 alpha antisense oligo

SISI

#116670

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CCCCXSX^2
The invention relates to an antisense compound 8 to 30 nucleobases in length targetted to a nucleic acid encoding glycogen synthase kinase 3 alpha. The antisense compound specifically hybridises with and inhibits
                                              Antisense compound 8 to 30 nucleobases in length comprising a that is targeted to a nucleic acid molecule encoding glycogen kinase 3 alpha, useful for the treatment of e.g. diabetes and hyperproliferative disorders.
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                                Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neurological disorder; tumour; haematopoietic disord hyperproliferative disorder; developmental disorder; phosphorothioate backbone; ss.
                                                                                                                                                   16-JAN-2001; 2001WO-US001411
                                                                                      2001-442247/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
                                                                                                      BP,
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                                15; Page 84;
                                                                                                    Mckay R,
                                                                                                                     PHARM
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'--nd_base= '
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== "Phosphorothioate backbone"
                               115pp;
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                               English
                                                                                                     Wyatt JR;
                                                                                                                                                                                                                         residues
                                                               synthase
                                                                       compound
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Query Match Best Local S Matches 17

Local Similarity hes 17; Conserv

0.3%; ilarity 85.0%; Conservative

Score 15.2; DB 1; Pred. No. 9.3e+02; 0; Mismatches 3

Length 20;

Indels

0

Gaps

0

Sequence

20

BP;

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0 DB 1; Other;

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RESULT 853
AAK95023
ID AAK950
XX AAK950
XX AAK950
XX O6-NOV
XX Human
XX Human
XX Human
XX Homo E
XX EP1130
XX 05-SEE
PD 05-SEE
XX 08-JUI
PR 11-JAA
XX NPI;
I Ota T,
PI Wakama
XX WPI;
I Ota T,
PI Ota T,
PI San P;
PI 11-GAA
XX WPI;
I Ota T,
PI San P;
PI 11-GAA
XX WPI;
I Ota T,
PI San P;
PI 11-GC Ota T,
PI San P;
PI San
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-JUL-1999;
11-JAN-2000;
02-MAY-2000;
                                                                   The invention relates to primers for synthesising full length cDNA clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesising the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a primer used to amplify a human cDNA clone provided in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the expression of glycogen synthase kinase 3 alpha. The antisense compound is useful for the treatment of a diseases associated with glycogen synthase kinase 3 alpha such as diabetes, a neurological disorder, a haematopoietic disorder, a hyperproliferative disorder or a developmental disorder. The antisense compounds may also be used prophylactically to prevent or delay infection, inflammation or tumour formation. The present sequence is a phosphorothicate antisense oligonucletide targetted to human glycogen synthase kinase 3 alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; full length cDNA; cDNA synthesis; oligo-capping; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 2 A; 8 C; 2
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                                                                                                                                                                                                                                                                                                                                                  Example 18; Page 129; 1380pp + Sequence Listing; English
                                                                                                                                                                                                                                                                                                                                                                                                                                 830 Primers useful for synthesizing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wakamatsu
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                                                                                                                                                                                                                                                                                                                                                                                                          genetic manipulation.
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                                                        provided in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
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2000JP-00183765.
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                                                        the invention
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Nagai
  C; 5
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Pred. No. 9.3e+02;
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K, Kojima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                    full length cDNA clones and their use
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S, Otsuki
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T, Koga
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RESULT 854
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to primers for synthesising full length cDNA clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesising the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a primer used to amplify a human cDNA clone provided in the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;
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11-JAN-2000; 2000JP-00118774.
02-MAY-2000; 2000JP-00183765
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   Phosphorothicate poly T oligonuclectide,
                                                            09-MAR-2001
                                                                                                                                                                              AAC87238 standard; DNA; 20
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                                                                                                                     AAC87238;
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Similarity 85.0%;
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su A, Sugiyama
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                                                                                                                                                                                                                                                                                                                            TIGCCCAGGCTAGTCTCGAA 20
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na T, Nagai
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K, Kojima S,
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      SEQ ID NO:17
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S, Otsuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 20;
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T, Koga
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RESULT 856 AAC87230/c

AAC87230 standard; DNA; 20

ВP

AAC87230

문 .8

20

Matches Query Match

Similarity

0.3%;

Pred. No. 9.3e+02 Mismatches

DB 1; Length 20;

0

Gaps

0

Conservative

0

5393 AAAAAAATACAAAAAAGAAA 5412

Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;

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The invention relates to the use of an immunostimulatory single-stranded CC DNA-binding protein in screening assays to identify compounds which bind CC to it and thereby act as functional modifiers of immunostimulatory CC oligodeoxynucleotide (ODN) activity. Such modifiers of DNA activity CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory CDNA mimics, and immunostimulatory DNA agonists and antagonists.

CC Immunostimulatory DNA-binding proteins can also be used in screening CC methods to identify immunostimulatory DNA binding competitors, and to optimize an immunostimulatory DNA-binding protein bound to an immunostimulatory DNA-binding protein bound to an immunostimulatory DNA-binding protein bound to an immunostimulatory DNA binding protein bound to an immunostimulatory DNA can additionally be used to screen a panel of condidate target molecules to identify the cellular target molecules of the immunostimulatory DNA-binding proteins cused in the methods of the invention are the RNA-binding proteins cused in the methods of the invention are the RNA-binding proteins concleolin, hnRNP D, AUF1, hnRNP Al and lupus La protein. The screening content in the compound that inhibits interaction between immunostimulatory DNA and an immunostimulatory DNA-binding proteins and for identifying acompound that inhibits interaction consecutes. The candidate immunostimulatory DNA cellular target consecution of structure/sactivity relationships of immunostimulatory DNA cellular target consecution of structure/sactivity relationships of immunostimulatory DNA cellular target consecution of structure/sactivity relationships of immunostimulatory DNA cellular target consecution of structure/sactivity relationships of immunostimulatory consecutions and immunostimulatory DNA cellular target consecuti
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Immunostimulatory DNA binding proteins to identify immunostimulatory DNA functional modifiers, immunostimulatory DNA binding competitors and to optimize immunostimulatory oligodeoxynucleotides for stimulation.
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03-MAR-2000; 2000US-0186845P.
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Digoxigenin-labelled

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oligonucleotide,

SEQ Ä

NO: 9

(first entry)

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Matches 17
                                                                                                                                                                                                                molecules. The candidate immunostimulatory ODN competitors allow the investigation of structure/activity relationships of immunostimulatory DNA-binding proteins and immunostimulatory ODNs. The present sequence represents an oligonucleotide used in an exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Immunostimulatory DNA binding proteins to identify immunostimulatory functional modifiers, immunostimulatory DNA binding competitors and toptimize immunostimulatory oligodeoxynucleotides for stimulation.
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03-MAR-2000; 2000US-0186845P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antagonist; mimic; inhibitor; drug screening;
cellular target identification; oligonucleotide optimisation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunostimulatory oligodeoxynucleotide; immunostimulatory ODN; immunostimulatory DNA-binding protein; nucleolin; hnRNP D; AUF1; hnRNP A1; lupus La protein; functional modifier identification;
                                                                                                                                                              Sequence 20 BP; 0 A; 0 C; 0 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to the use of an immunostimulatory single-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 45; 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-016002/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-APR-2000; 2000WO-US011697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200067023-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              mmunotherapy;
  5393 AAAAAAATACAAAAAAGAAA 5412
                                                          17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CPG IMMUNOPHARMACEUTICALS GMBH. UNIV IOWA RES FOUND.
                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Schetter C,
                                                          Conservative
                                                                                0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Krieg AM
                                                       <u>.</u>
                                                                                Score 15.2;
Pred. No. 9.
                                                                                                                                                              20 T; 0 U; 0 Other;
                                                       Mismatches
                                                                                DB 1; Length .3e+02;
                                                       Indels
                                                       0
                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            agonist;
                                                       0;
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RESULT 857
AAC87241/c
ID AAC87241 standard; DNA; 20 BP

맑 8

Query Match Best Local S Matches 17

Local Similarity

0.3%;

Score 15.2; DB 1; Pred. No. 9.3e+02;

Length Indels

20;

0

Gaps

0

Conservative

0

Mismatches

5393 AAAAAAATACAAAAAAGAAA 5412

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cc complexes of an immunostimulatory DNA for immune stimulation. Isolated complexes of an immunostimulatory DNA binding protein bound to an cimmunostimulatory ODN can additionally be used to screen a panel of candidate target molecules to identify the cellular target molecules of the immunostimulatory ODN. The immunostimulatory DNA-binding proteins cused in the methods of the invention are the RNA-binding proteins cused in the methods of the invention are the RNA-binding proteins cused in the methods of the invention are the RNA-binding proteins cused in the methods of the invention are the RNA-binding proteins cused in munostimulatory DNA and an immunostimulatory DNA-binding protein and for identifying a compound that inhibits interaction between immunostimulatory DNA and an immunostimulatory DNA cellular target consecutes. The candidate immunostimulatory DNA cellular target investigation of structure/activity relationships of immunostimulatory DNA competitors allow the investigation of structure/activity relationships of immunostimulatory consecutions are sequence complexed to the invention of the invention o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA mimics, and immunostimulatory DNA agonists and antagonists. Immunostimulatory DNA-binding proteins can also be used in screening methods to identify immunostimulatory DNA binding competitors, and t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to the use of an immunostimulatory single-stranded DNA-binding protein in screening assays to identify compounds which bind to it and thereby act as functional modifiers of immunostimulatory oligodeoxynucleotide (ODN) activity. Such modifiers of ODN activity consist of immunostimulatory DNA binding inhibitors, immunostimulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Immunostimulatory DNA binding proteins to identify immunostimulatory functional modifiers, immunostimulatory DNA binding competitors and toptimize immunostimulatory oligodeoxynucleotides for stimulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunostimulatory oligodeoxynucleotide; immunostimulatory ODN; immunostimulatory DNA-binding protein; nucleolin; hnRNP D; AUF1; hnRNP A1; lupus La protein; functional modifier identification; antagonist; mimic; inhibitor; drug screening; cellular target identification; oligonucleotide optimisation;
Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Page 45; 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   No11 BO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CPGI-) CPG IMMUNOPHARMACEUTICALS (IOWA ) UNIV IOWA RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-APR-1999; 99US-0131830P.
03-MAR-2000; 2000US-0186845P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-APR-2000; 2000WO-US011697.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Poly T oligonucleotide, SEQ ID NO:20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               09-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAC87241;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Schetter C,
BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   agonist;
                                                                                                                                                                                                             complex
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RESULT 858
AAS10402/c
ID AAS104
XX AAS104
XX DNA te
XX DNA te
XX JONA te
XX JONA te
XX Synthe
XX Synthe
XX US6238
XX US6238
XX CHEN/
PA (HUAN)
PA (FUAN/
PA (SZOS/
YX HUANG
PF Labeli
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CC The modify
CC Solventy
                                                                                                                                                                                                                                                 RESULT 859
AAD16997/c
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                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The sequence represents a synthetic DNA template molecule used to a demonstrate the method of the invention. The invention relates to a method of modifying (e.g. 3' end labelling with 32P dAFP) the 3' terminus of an RNA molecule by providing a DNA oligonucleotide, complimentary to the 3' end of the RNA molecule, with an overhang at the 5' end which allows incorporation of the labeling nucleotide into the RNA molecule. The method, based on the synthesis in the regenents, is useful for labeling and modifying the 3'-termini of other nucleic acids such as DNA fragments. The method is a simple and efficient way of labeling or modifying RNA 3'-termini using DNA polymerase and a synthetic template
Scaffold protein; antibody mimic; fibronectin type III domain; randomised loop; randomised beta-sheet; diagnostic purpose; protein designing; probe; tenth module of human Fn3; 10Fn3; fibronectin module of type III; Fn3; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modifying a 3' terminus of a pre-selected DNA sequence, useful labeling and modifying 3'-termini of other nucleic acids, compr a synthetic nucleotide template with a defined overhang nucleot
                                                                                                                                                                                                                             AAD16997 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                 29-NOV-2001
                                                                                                                                                                                         AAD16997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 5; Col 13; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-OCT-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-MAY-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6238865-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA template for 3' end labeling of an RNA molecule,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAS10402;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CHEN/) CHEN G.
(HUAN/) HUANG Z.
(SZOS/) SZOSTAK J W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RNA end
                                                                                                                                                                                                                                                                                                                                                         5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001-366470/38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          defined
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Z, Szostak JW;
                                                                                                                                                                                                                                                                                                                                  20
                                                                                                      probe
                                                                                                                                                                                                                                                                                                                                  AAAAAAAAAAAAAAAAA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      overhang nucleotides
                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                        CP5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                97US-0063757P
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                                                                                                                                                                                                                                                                                                                                                                                                                               0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DNA template; Okazaki fragment; 5' overhang;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20
                                                                                                                                                                                                                               ВP
                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.2; DB 1;
Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; Length
                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             s, comprises using nucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                0
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                                                                                                                                                                                                                                                                                                                                                                                                                Сарв
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention relates to an array of proteins (antibody mimics) comprising a fibronectin type III domain having a randomised loop, a randomised beta-sheet, or their combination, and has the capacity to bind to a compound that is not bound by a corresponding naturally-occurring fibronectin, immobilised onto a solid support. The antibody mimics is useful for detecting a compound preferably a protein, in a biological sample. It is also useful to detect one or more different analytes simultaneously in a sample. Hence is useful for diagnostic purposes. It is also useful for the purpose of designing proteins capable of binding to virtually any compound of interest. The present sequence is a capture probe used to self-assemble and anchor the tenth module of human fibronectin module of type III (Pn3) (10Pn3) which is used in an exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pibronectin scaffold protein array for obtaining a protein/compound which binds to a compound/protein, comprises a fibronectin type III domain having a randomized loop, a randomized beta-sheet or their combination.
                          28-JUL-1999;
                                                      28-JUL-1999;
                                                                                                               DE19935302-A1
                                                                                                                                           Unidentified.
                                                                                                                                                                    tumor therapy;
                                                                                                                                                                                                Transport; membrane; cytostatic; virucide; vasotropic; dermatological;
                                                                                                                                                                                                                             Conjugate forming oligonucleotide ON5 SEQ ID
                                                                                                                                                                                                                                                         15-MAY-2001
                                                                                                                                                                                                                                                                                                                 AAF60896 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 41; 67pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-557782/62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-FEB-2001; 2001WO-US006414.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified.
(AVET ) AVENTIS PHARMA DEUT GMBH.
                                                                                                                                                                                  antipsoriatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lipovsek D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-FEB-2000; 2000US-00515260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOTAHA (-TAHA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . ...
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                                                                                                                                                                                                                                                                                                                                                                                                                                            l Similarity
17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                       AAAAAAAAAAAAAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wagner RW,
                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                         (first
                                                                                                                                                                 antiasthmatic; gene t
drug; phosphodiester
                          99DE-01035302
                                                        99DE-01035302.
                                                                                                                                                                                                                                                                                                                 DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          85.0%;
                                                                                                                                                                                                                                                         entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                                                                                                                                                 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
                                                                                                                                                                                                                                                                                                                 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 15.2;
Pred. No. 9.
                                                                                                                                                                                gene therapy; tumor cell; antisense;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.3e+02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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RESULT 861
AAH5699
ID AAH569
XX AAH569
AC AAH569
XX 10-SEE
XX 10-SEE
XX UIGAN
DE Human
XX Ligani
KW glucoo
KW glucoo
KW mr; pe
KW thyroj
KW transes
                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                       S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC Ar-(XY-R-I) n (II). Ar = group containing at least one arganization of the containing at least one aromatic ring;

CX = O or N (Sic); Y = O, S or NH-R 2 (sic); R I = optionally substituted

CY = 3C alkyl (optionally containing double and/or triple bonds); R = 1

CY optionally substituted 1-18C alkyl (optionally containing double and/or

CY triple bonds); n = integer of 1 or more. (A) is bonded to (B) directly or

CY via a chemical group, provided that the chemical group is other than CH 2

-S if the bond is via a phosphodiester linkage of (A). The invention also

CY describes (i) the preparation of a conjugate (I') of (A') a molecule to

CY of (II); by preparing (A') containing a reactive function at the position

CY and (ii) the use of aryl groups (II) (optionally bonded via a chemical)

CY group) for transporting (A) across biological membranes. The products of

CY the invention have cytostatic, virucide, vasotropic, dermatological,

CY antipsorlatic and antiasthmatic activity and can be used for gene

CY therapy. Conjugation of (A) with (B) is useful for transporting (A)

CY across biological membranes or into enkaryotic or prokaryotic cells

CY specifically bacterial, yeast or mammalian cells, including human cells,

CY artipsorlatic ardial protections or diseases associated with integrine or cells,

CY cell interactions (e.g. restenosis, vitiligo, psoriasis or asthma); or

CY labeled oligonucleotides for in vivo diagnostic use, e.g. by in situ

CY of (A), e.g. in tumor cells. (B) include fluorescein derivative residues,

CY microscopic monitoring of cellular uptake etc. The cellular uptake of

CY is superior to that obtained to other conjugated groups related to

CY (II); e.g. oligonucleotides conjugated with fluorescein diacetate (within

CY conjugates

CY of (A) and (B') are superior uptake to corresponding fluorescein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 17
MR; peroxisome proliferator-activated receptor protein; PPAR; progesterone receptor protein; PXR; pregnane X receptor protein; PXR; thyroid hormone receptor protein; TXR; vitamin D receptor protein; VI transactivation; ERalpha; breast cancer; PCR primer; probe; ss.
                                                                                 Ligand dependent transcriptional factor; oestrogen receptor; ER; glucocorticoid receptor protein; GR; mineralocorticoid receptor
                                                                                                                                                                                              10-SEP-2001
                                                                                                                                                                                                                                                                                AAH56999 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention describes a novel conjugate (I) which consists of (A) a molecule to be transported and (B) at least one aryl residue of formula
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New substituted aryl conjugates of parent molecules, especially oligonucleotides, having improved transmembrane and intracellular transmort properties, useful as medicaments or diagnostic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Uhlmann
                                                                                                                                                                                                                                                                                                                                                                                                                                5393 AAAAAAATACAAAAAGAAA 5412
                                                                                                                                                  oestrogen
                                                                                                                                                                                                                                                                                                                                                                                        μ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Greiner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                            (first entry)
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                                                                                                                                                    receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28pp; German.
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                                                                                                                                                  alpha search PCR
                                                                                                                                                                                                                                                                                ВP
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Pred. No. 9.3e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 1; Length 20;
                                                                                                                                                  primer
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cc peroxisome proliferator-activated receptor protein (MR), creeptor protein (PR), pregnane X receptor protein (PXR), thyroid hormone cc receptor protein (PR), pregnane X receptor protein (PXR), thyroid hormone cc receptor protein (TR) and vitamin D receptor protein (VDR), the nucleic concides encoding them and cells comprising them and a specified reporter cc gene for the ligand dependent transcriptional factor. These proteins are cc useful in the modulation of ligand dependent transcriptional factor cc activity. The cells, mutant ERalpha and the polymucleotide encoding it cc may be used in assays for qualitatively analysing an activity for transactivation of a reporter gene by a test ERalpha, for screening cc mutant ligand dependent transcriptional factors, for evaluating an cc activity for transactivation of a reporter gene by a test ERalpha and/or screening a compound useful for treating a disorder of a mutant cancer can be a test Eralpha, especially breast cancer
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                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
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21-JUL-2000; 2000JP-00220508.
02-AUG-2000; 2000JP-00234053.
03-AUG-2000; 2000JP-00235460.
03-AUG-2000; 2000JP-00235461.
03-AUG-2000; 2000JP-00235463.
                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ligand dependent transcriptional factors, nucleic acids encoding them and cells comprising them and a specified reporter gene, useful for screening agents for the treatment of breast cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Saito K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-JUN-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to ligand dependent transcriptional factors including oestrogen receptor (ER) alpha and beta protein, glucocorticoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-DEC-1999;
27-DEC-1999;
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                                                                                                                                                                                                                                                                              2320 ATCATCTCCACCTTCTTGAA 2339
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                                                                                                                                                                                                                                                                                                            Conservative
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C;
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                     U; 0 Other;
                                                                                                                                                                                                                                                                                                      3.3e+02;
3;
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                                                                                                                                                                                                                                                                                                                                        1; Length 20;
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                                                                                                                                                                                                                                                                                                           Gaps
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Oligonucleotide-nanoparticle probe; diagnostic; nucleic acid detection; nanostructure; biochip;

forensic analysis;
biofilter; drug delivery;

Oligonucleotide-nanoparticle probe #52.

AAS63428

29-JAN-2002

(first

entry)

AAS63428 standard;

DNA;

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RESULT 863
AAF28481
ID AAF284
XX AAF284
XX O3-AF8
DT 03-AF8
DX Random
XX Nuclei
KW diseas
KW cell 1
XX
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                                                                                                                                                                                                                                                                              S
                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method for detection of nucleic acid (I) having at least 2 portions, comprising treatment with nanoparticles that carry oligonucleotides complementary to at least 2 parts of (I), where detectable change caused by hybridisation of the oligonucleotide to (I) is observed. The method is used to detect (or to separate) specific (I), e.g. for diagnosing a wide variety of diseases, sequencing, in forensic analysis etc., and generally to detect analytes other than (I). The oligonucleotide-derivatised nanoparticles are also useful for preparing nanostructures useful, for example, as blochips, biofilters, mechanical devices, separation membranes, chemical sensors, in computers, and for drug delivery. Very stable nanoparticle-oligonucleotide conjugates can be produced, allowing their direct use (as probes) in polymerase chain reaction, i.s. they survive multiple heating/cooling cycles so do not need to be added after amplification. (I) are detected by simple colour change, without the need for special equipment, making possible rapid field testing for e.g. pathogens. AAS63374-AAS63448 represent
                                                                                                                                                                                                                                                                                                                           Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                Matches
                              Nucleic acid detection; nanoparticle-oligonucleotide conjugate; disease diagnosis; forensic analysis; DNA sequencing; paternity testing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting and separating nucleic acid, useful e.g. for diagnosis, comprises reaction with nanoparticles that carry oligonucleotides complementary to parts of the target.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAR-2000;
26-APR-2000;
                                                                           Random oligonucleotide,
                                                                                                            03-APR-2001
                                                                                                                                          AAF28481;
                                                                                                                                                                      AAF28481 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 18; Page 158; 404pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mirkin
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                 line authentication;
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E
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                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                          the invention
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Park S, Li Z;
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2000US-00603830
2000US-0213906P
2000US-0254392P
2000US-0255235P
2001US-00760500
2001US-00820279
                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                            (first
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                                                                                                            entry)
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                gene
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                                                                                                                                                                                                                                                                                                               0; Mismatches
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                therapy; ss.
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                                                                             53
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                                                                                                                                                                                                                                                                                                                Indels
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AAS10371

ID AAS

XX AAS

AC AAS

XX O1:

DY 24-

DX O1:

XX Nann

KW Nan

KW DNA

KW Eox

XX Syn

XX Key

FH Key

FT mis
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                                                                                                                                                                                                                                                           RESULT 864
                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence is an oligonucleotide used in a method for detecting a nucleic acid having at least 2 portions. The method comprises hybridising the nucleic acid with oligonucleotides, such as the present sequence, attached to a substrate and/or particle and detecting a change in colour, conductivity or optical density. The method is useful for the diagnosis and/or monitoring of diseases, in forensics, in DNA sequencing, for paternity testing, for cell line authentication and for monitoring gene therapy. Detecting nucleic acids based upon observing a colour change is cheap, fast, simple, and does not require specialised or expensive equipment. The nanoparticle oligonucleotide conjugates remain stable for at least 6 months. A single base mismatch and as little as 20 femtomoles (fM) of target can be detected using the conjugates
                                                                                Nanoparticle; cyclic disulphide-oligonucleotide; DNA detection; DNA isolation; genetic disease; bacterial disease; viral disease; forensic science; paternity testing; gene tharapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and DNA sequencing, comprise
by hybridization of nucleic
oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting nucleic acid, useful for e.g. diagnosis of diseases, for and DNA sequencing, comprises observing detectable change brought by hybridization of nucleic acid with substrate or particle bound
           misc_feature
                            Key
                                                       Synthetic.
                                                                                                                                           Oligonucleotide-cyclic disulphide linker,
                                                                                                                                                                       24-OCT-2001
                                                                                                                                                                                                                                AAS10371 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-JUN-1999; 99US-00344667.
26-APR-2000; 2000US-0200161P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-JUN-2000; 2000WO-US017507.
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                                                                                                                                                                                                                                                                                                                         5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MUCIC R C.
STORHOFF J J.
ELGHANIAN R.
TATON T A.
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                                                                                                                                                                                                                                                                                                                                                             l Similarity
17; Conserv
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MUCIC R C.
                                                                                                                                                                                                                                                                                                                                                                                                                      BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                         (first
/*tag=
                            Location/Qualifiers
                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                          0.3%;
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                                                                                                                                                                                                                                ВÞ
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Pred.
                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                            15.2; DB 1;
No. 9.3e+02;
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RESULT 865
AAF99427/C
ID AAF994
XX AAF994
XX AAF994
XX IT2-JUN
XX ITMMUNC
XX ITMMUNC
XX VACCIN
XX VACIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cc may be coupled with colloidal gold particles (nanoparticles) and used to complete the method of the invention. The invention relates to colloidal gold particle action. The invention relates to colloidal gold, by binding it to 2 or more complimentary nucleotides which have a nanoparticle attached to their 5' ends. The nanoparticles (e.g. colloidal gold) are used to both isolate and detect (e.g. by linking the comparticle to a fluorescent probe) the resultant complex. The methods are useful for detecting nucleic acids, natural or synthetic, and modified or commodified. The methods may also be applied in the diagnosis of genetic, bacterial and viral diseases, in forensics, in DNA sequencing, for cell line authentication, and for monitoring gene compartories in DNA sequencing, in the field to detect the presence of laboratories in DNA sequencing, in the field to detect the presence of compartories in DNA sequencing, in the field to detect the presence of specific pathogens, for quick identification of an infection to assist in colline screening. The methods, which are based on observing colour change with the naked eye, are cheap, fast, simple, robust (reagents are stable), do not require specialised or expensive equipment, and little or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 17
Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting a nucleic acid useful in e.g. diagnosing genetic, bacterial or viral diseases, by contacting the nucleic acid with oligonucleotides attached to nanoparticles and having sequences complementary a portion of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-JAN-2000; 2000US-0176409P.
26-APR-2000; 2000US-0200161P.
26-JUN-2000; 2000US-00603830.
12-JAN-2001; 2001US-00760500.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 24; Fig 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           viral diseases, by contacting attached to nanoparticles and the nucleic acid.
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                                                                                                                                                                                                                                                        AAF99427;
                                                                                                                                                                                                                                                                                                                     AAF99427 standard;
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                                                                                                                          Immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     instrumentation is required
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence represents a cyclic disulphide linked oligonucleotide which
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Pred. No. 9
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27-SEP-1999;
23-AUG-2000; 2
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                                                                                                              Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic; immunostimulatory; tumour; viral infection; bacterial infection; fungal infection; parasitic infection; cancer; asthma; infectious disease; allergy; immune deficiency; phosphorothioate; 88.
                                                                                                                                                                                                                                                                                               AAF99099
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                                                 WO200122972-A2
                                                                                                                                                                                              Immunostimulatory nucleic acid #215
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Pred. No. 9.3e+02
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RESULT 867
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27-SEP-1999;
23-AUG-2000;
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                                                25-SEP-1999; 99US-0156113P.
27-SEP-1999; 99US-0156135P.
23-AUG-2000; 2000US-0227436P.
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27-SEP-199; 99US-0156135P
23-AUG-2000; 2000US-0227436P
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Pred. No. 9.3e+02;
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Vaccinating against tumors, infectious diseases, allergies using immunostimulatory Py-rich and TG nucleic acids.

and asthma

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RESULT 869
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ID AN4379
XX AN4379
XX SNP 8p
XX SIngle
KW Single
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KW Lesch-
KW Golte
KW Inflam
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Single nucleotide polymorphism; SNP; single nucleotide primer extension; SNPE; genotyping; agammaglobulinaemia; diabletes insipidus; cancer; Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritts; multiple sclerosis; inflammation; forensic investigation; paternity analysis; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                               New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nuc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Picoult-Newburg L,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ORCH-) ORCHID BIOSCIENCES INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5129 AGGAATAGGAGGGACATGGA 5148
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Pred. No. 9.
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Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPE. The present invention includes kits for determining the presence or absence of a SNP, using the oligonucleotides of the invention. The PCR primers are used to amplify a

1; Page

83pp; English

nucleic

flanking sequence,

the SNPE primer is used as a genotyping

primer

This invention describes a novel DNA sequence (I) encoding the MTR1 protein that: (i) has at least one biological activity of a TRP (transient receptor potential) family protein; (ii) is connected with etiology of BMS (Beckwith-Wiedemann syndrome) and/or (iii) is connected.

is connected

Page 19;

46pp;

German

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RESULT 870
AAH20526/c
ID AAH205526/c
XX AAH205
XX AAH205
XX AAH205
XX Human
XX Human
XX Human
XX WIRL;
XW Cell;
XW polyc;
XW polyc;
XW polyc;
XW PO200
XX Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MTR1; TRP-related protein; Ca2+ regulation; calcium regulation; tumor; transient receptor potential family; BWS; Beckwith-Wiedemann syndrome; 11p15.5 abnormality; chromosome 11; anchorer; developmental activity; intracellular calcium ion regulation; hormone; growth factor; apoptosis; cell growth; cell death; cell differentiation; urogenital disease; polycystic kidney disease; calcium influx; Wilms tumor; rhabdoid tumor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20
                                                                                                                                                                                                                                                                     DNA encoding MTR1 protein, useful e.g. for treating Beckwith-Wiedemann syndrome and tumors, also related proteins and antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Prawitt D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            04-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYGU-) UNIV GUTENBERG JOHANNES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rhabdomyosarcoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Pelletier J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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Pred. No. 9.3e+02;
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CC invention have anticancer and developmental activity. MRT1 is involved in CC regulation of intracellular calcium ion levels, which are essential for CC cellular responses to hormones and/or growth factors; also in apoptosis CC and cell growth, death and differentiation, and in urogenital diseases. CC including polycystic kidney disease. (I) and related ribozymes, antisense CC RNA, proteins and antibodies (Ab)) are used to treat or prevent diseases CC associated with altered expression of the MRT1 gene or activity of its CC protein, or with calcium influx into cells, e.g. BWS, Wilms tumor, CC rabbdoid tumors and rhabdomyosarcoma. Probes from (I), or Ab, are also cc used for diagnosis of such diseases. (I) can also be used for recombinant CC production of MRT1 proteins (II) (used for analysis, characterization and therapy), as tissue or chromosomal markers, for identifying genetic cdiseases and related sequences, as priners for genetic fingerprinting, as source of oligonucleotides for biochips, and to raise anti-protein or CC competitive assays for (II) are used to raise Ab, as reagents in CC competitive assays for (II) as tissue markers, for identifying contents a pCR primer used in the amplification of the human MTR1 gene CC described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 17; Conserv
                    Preparing sulfurized 2' substituted phosphorothioate oligonucleotides useful in biological research, comprises phosphitylating the 5'-hydroxyl of a nucleic acid having a nucleoside with a 2' modification.
                                                                                                                                                                                                                                                           11-JAN-2000; 2000US-00481486.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      modified_base
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                                                                                                                                          Ravikumar'VI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                        97US-00950779.
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                                                                                                                                                                                                                                                                                                                                                                                 'note= "Modified with 2'-0-methyl'
                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note= "All bases are phosphorothioate"
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Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Screening nucleic acids (NA) in pool of interest comprises pooling, expressing NA to form expression product pool and identifying NA in NA pool corresponding to expression product pool having interaction with
                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Col 22; 19pp; English
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Pred. No. 9.3e+02;
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The specification describes a method for identifying a nucleic acid in a pool of interest. The method comprises pooling individually identifiable nucleic acids into at least two pools of one nucleic acid each; expressing nucleic acid pools to obtain protein expression product pools; assaying protein expression product pools for products having interaction with target molecule; selecting nucleic acid pools corresponding to identified protein expression product pools; and identifying individual nucleic acids in identified nucleic acid pools. The method is useful for identifying a nucleic acid (e.g. cDNA) in a pool of interest and for functionally screening several nucleic acids. The method is also useful for screening genomic DNA libraries or other source of individual cDNAs, synthetic libraries of nucleic acids e.g. combinatorial libraries.

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RESULT 873
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                                                                                                                                                                The present sequence was used to demonstrate the ability of deoxynucleic CC S-Methythiourea (DNmt) compounds to form triplexes with DNA oligomers. An cC increase in the C content of the oligos resulted in a large decrease in binding. This experiment was performed as an example of a method for CC preparing oligonucleotides comprising a backbone of alkyl or alkoxy ct thiourea linkages. The method is useful for preparing oligonucleotides for use in antisense or antigene therapy, to inhibit production of CC proteins associated with genetic diseases, cardiovascular, inflammatory CC and neurocellular diseases, and for antiviral therapy, e.g. to treat CC infections. The compounds are also useful as diagnostic reagents to CC detect the presence or absence of the target DNA or RNA sequences to CC which they specifically bind and by antagonising the normal biological CC activity of a target protein, they can be used in the manipulation of CC cultures. The method provides an efficient and rapid solid-phase method CC for the synthesis of thiourea and S-methylthiourea
Query Match
Best Local S
Matches 17
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11-DEC-1998;
02-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Preparing novel deoxynucleic alkyl thiourea oligonucleotide for use in antisense therapy, by synthesizing oligonucleotides comprising backbone of alkyl or alkoxy thiourea linkages in solution or on solid phase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Deoxynucleic g-Methythiourea; DNmt; antisense therapy; cardiovascular disease; inflammatory disease; neurocellular disease; antiviral therapy; human immunodeficiency virus; human-cytomegalovirus; influenza; herpes; infection; ss.
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                                                                                                                   Sequence 20
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                              Similarity
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98US-0111800P.
99US-00347443.
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Score 15.2; DB 1; Length 20; Pred. No. 9.3e+02; O; Mismatches 3; Indels
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Pred. No. 9
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Matches 17
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                                                           19-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is that of the antisense primer used in the PCR amplification of a 150 bp fragment of the human neurokinin NK-2 receptor gene. The sense primer is given in AAH26068. Quantitative PCR was performed on total RNA extracted from breast cancer calls. The results showed that NK-2 expression is up-regulated in breast cancers. Agonists and antagonists that influence expression of NK-2 can be used for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel promoters and 3' regulatory region of preprotachykinin gene, useful for treating pain, asthma, arthritis, aggressive behavior, depression, bone marrow metastasis, and hematopoietic disorders.
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                                                                                                                    AAF23343;
                                                                                                                                                                             AAF23343 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         arthritis, aggressive behaviour and depression associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example; Page 35; 78pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-408640/43.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (UYNE-) UNIV NEW JERSEY MEDICINE & DENTISTRY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-JUN-2001
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                                                                                                                                                                                                                                                                                                                       5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 4 A; 10 C; 0 G; 6 T; 0 U; 0 Other;
                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.3%;
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                                                                                                                                                                             ₽₽
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.2; DB 1;
Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 20;
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RESULT 876
ABK47733
ID ABK477
XX
AC ABK477
XX
DT 18-JUN
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                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                              The present sequence is an oligonucleotide developed using a Mycobacterium ITS (internal transcribed spacer region) nucleotide sequences. ITS DNA sequences from M. fortuitum, M. chelonae, M. abscessus, M. vaccae, M. flavescens, M. asiaticum, M. porcinum, M. acapulcensis, M. diernhoferi genes were identified. The oligonucleotides derived from these sequences were used to develop PCR primers and hybridisation probes for detection and identification of Mycobacterium. ITS has a more polymorphic region than 16S rRNA and also has a conserved region. It is polymorphic region than 16S rRNA and also has a conserved region. It is therefore highly effective as a target DNA for distinction of genotype. The oligonucleotide probes, attached to solid substrate, hybridise only with nucleotide sequences in ITS of specific mycobacteria, and thus they can detect and identify the specific mycobacteria by PCR amplification. Using the oligonucleotide primers or probes made from ITS of mycobacteria, it is possible to detect mycobacteria, distinguish tuberculosis (TB) complex from non-tuberculosis mycobacteria
                                                                                                                                                                                             Query Match
Best Local S
Matches 17
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29-MAY-1999;
29-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel oligonucleotide sequences of internal transcribing spacer region non-tuberculosis mycobacteria (NTM) used as probes or primers for detecting and identifying mycobacteria and distinguish TB complex from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (SJHI-)
(KIMC/)
(PARK/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ITS; internal transcribed spacer region; Mycobacterium fortuitum; Mycobacterium chelonae; Mycobacterium abscessus; Mycobacterium va Mycobacterium flavescens; Mycobacterium asiaticum; tuberculosis; Mycobacterium gorcinum; Mycobacterium acapulcensis; identificatio Mycobacterium diernhoferi; PCR primer; probe; detection; ss.
 18-JUN-2002
                               ABK47733;
                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim
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                                                         ABK47733 standard; DNA; 20
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                                                                                                                                                               1036 GAGTCACCCAACGCCCCAC 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2001-061527/07.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36; Page 82; 89pp; English.
                                                                                                                                     20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SJ HIGHTECH
KIM C M.
PARK H K.
                                                                                                                                                                                                             Similarity
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                                                                                                                                     GAGTCACCGAACTCCCACAC 1
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                                                                                                                                                                                                                                                       BP;
                                                                                                                                                                                              Conservative
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 (first entry)
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99KR-00019632.
99KR-00019633.
99KR-00019634.
99KR-00019635.
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                                                                                                                                                                                                                                                       C; 9
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                                                           ВÞ
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                                                                                                                                                                                                                                                       G; 6 T; 0
                                                                                                                                                                                                           Score 15.2;
Pred. No. 9.
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                                                                                                                                                                                                             9.3e+02
                                                                                                                                                                                                                                                        0 Other;
                                                                                                                                                                                                                           DB 1;
                                                                                                                                                                                                                           Length
                                                                                                                                                                                              Indels
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                                                                                                                                                                                             Gaps
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Homo sapiens polymorphism;

PCR;

primer;

Lecithin-cholesterol acyltransferase; LCAT; Norum disease; gene therapy; fish-eye disease; atherosclerotic cardiovascular disease; forensic; population diversity; anthropological lineage; paternity testing; human;

Human LCAT gene reverse PCR primer #20.

07-OCT-2002 ABK97573; ABK97573

(first entry)

standard;

DNA;

20

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RESULT 877
ARS9753/c
ID ABK975
XX
AC ABK975
XX
O7-OCT
XX
DB Human
XX
Lecith
XW Lecith
XW fish-e
KW popula
XW popula
XW popula
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                                                                                                                                                                                                                                                                                                          S
                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a method of modulating amplification efficiency of a target sequence in primer-dependent polymerase-mediated DNA synthesis. The method comprises adding a template-mimic oligonucleotide (TMO) to a primer-dependent polymerase-mediated DNA synthesis reaction mixture containing primers, to block a primer for amplifying a target sequence in the mixture from hybridising to the target sequence. The method is useful for adjusting the efficiency of target sequence. The method is useful for adjusting the efficiency of template nucleic acid amplification by controlling the ratio of template-like oligonucleotides to amplification by controlling the method provides a convenient and efficient method for simultaneous detection of high and low-abundant genes in multiplex RT-PCR, and is more potent and easier to control than the Competimer method. The present sequence represents a PCR primer used in the example of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Primer-dependent polymerase-mediated DNA synthesis; TMO; template-mimic oligonucleotide; nucleic acid amplification; multiplex RT-PCR; reverse transcriptase-PCR; Competimer method; PCR; primer; beta-actin; ss.
                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example; Page 11; 39pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dependent pefficiency
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Modulating
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BTIH)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30-AUG-2001; 2001WO-US027287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Beta-actin PCR primer #3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200218616-A1
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                                                                                                                                                                                                                                                                                                             1262 GCCTACAGCCCACCACCAC 1281
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HITACHI CHEM CO LTD.
HITACHI CHEM RES CENT INC.
                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                GGCTACAGCTTCACCACCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g amplification efficiency of a target sequence in primer-
polymerase-mediated DNA synthesis, useful for adjusting the
y nucleic acid amplification comprises adding a template mimic-
                                                                                                                                                                                                                                                                                                                                                                                                       BP; 5
                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                       A; 9 C; 3 G; 3 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                          0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                used in invention relating
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                                                                                                                                                                                                                                                                                                                                                        Score 15.2; DB 1
Pred. No. 9.3e+02
                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                             Indels
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RESULT 878
ABN84468/c
ID ABN844
XX ABN844
XX ABN844
XX CARDOX
DT 21-OCT
XX Carbox
XX C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention relates to a new polynucleotide comprising a CC nucleotide sequence which is a polynucrypic variant of a reference considered sequence for lecithin-cholesterol acyltransferase (LCAT). The invention cC is useful for identifying an association between a trait (preferably a CC clinical response to drug targeting LCAT) and at least one genotype or CC haplotype of LCAT gene. The method of the invention has applicability in CC developing diagnostic tests and therapeutic treatments for Norum disease, CC fish-eye disease and atherosclerotic cardiovascular disease. The CC diversity, anthropological lineage, the significance of diversity and CC diversity, anthropological lineage, the significance of diversity and CC lineage at the phenotypic level, paternity testing, forensic applications and for identifying association between the LCAT genetic variation and a CC trait such as level of drug response or susceptibility to disease. In CC individuals are useful in the development of drugs targeting LCAT. For CC example, determining the frequency of individual LCAT haplotypes in a CC individuals are useful in the development of drugs targeting LCAT. For CC example, determining the frequency of individual LCAT haplotypes in a CC population with a specific disease, e.g. Norum disease, will facilitate the development of drugs targeting the LCAT isoform(s) that are most frequency useful in that disease population. The present nucleic acid sequence there used in the methods of the invention to detect polymorphisms in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                              Carboxypeptidase; islet of Langerhans; endocrine; stem cell; cell differentiation; diabetes; antidiabetic; cell therapy; enzyme; PCR;
                                                                                                                                                                                                                                                                  Carboxypeptidase A forward PCR primer.
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                                                                                                                                  primer;
                                                                                                                                                                                                                                                                                                                                       21-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                        ABN84468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABN84468 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-JAN-2001; 2001WO-US000092.
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WO200259278-A2
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                                                                                                                                      88.
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RESULT 879
ADD46625 E
XX
ADD46625;
XX
AC ADD46625;
XX
AC ADD46625;
XX
AC ADD46625;
XX
Chuman ABCQ
XX
ABCC11 pro
XX
Cholester
XX
ABCC11 pro
XX

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      culture of undifferentiated embryonic stem cells, selecting endocrine current of undifferentiated embryonic stem cells, selecting endocrine concerns cells (EPCs), expanding the EPCs by culturing in an expansion medium that comprises a growth factor, and differentiating the expanded EPCs in a differentiation medium. The present sequence is a forward PCR primer for carboxypeptidase A. Use with the primer given in ABN84469 concerns a growth of 521 bp. A primer set (see ABN84454-71) was used in an example of the invention for RT-PCR analysis of endocrine pancreatic gene expression in mouse embryos at stages 1 and 5. The results suggested that the culture conditions used to generate pancreatic endocrine cells supported the differentiation of pancreatic cells. Pancreatic endocrine cells cells generated in vitro can be used as a model system to study the cells of the islets of Langerhams, to study the kinetics and pharmacology of the development of artificial islet and artificial pancreas tissues for the center of the center of pancreatic endocrine disorders, particularly type in the treatment of pancreatic endocrine disorders, particularly type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24-JAN-2001; 2001US-0264107P.
06-FEB-2001; 2001US-0266917P.
18-OCT-2001; 2001US-0344548P.
                                                                                                                                                                                                                                                                                                                                                                              Human ABCC11 intron20/exon21 junction site.
                                                                                                                                                                                                                                                                                                                                                                                                                                       27-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; Page 42; 76pp; English.
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                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                    cholesterol
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20
                                                                                                                                                                                                                                                                                                                 protein; paroxysmal kinesigenic chorecathetosis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
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                                                                                                                                                                                                                                                                                transport; gene therapy; human; ds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BP; 4 A; 3 C; 6 G; 7 T; 0 U; 0 Other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                /note= "partial"
                                                                                         /*tag=
                                                                                                                                                      Location/Qualifiers
                                                                number=
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Pred. No. 9.
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ABS77742/c
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AC ABS777
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AG ABG109
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to novel ABCC11 nucleic acids and proteins. ABCC11 sequences are used in the manufacture of a medicament for treating and/or preventing subjects affected by paroxysmal kinesigenic choreoathetosis. They may be used for treating or preventing subjects affected by a dysfunction of the transport of anionic drugs such as GSH, glucuronate, or sulphate conjugated to acidic ligands such as GSH, glucuronate, or sulphate conjugated drugs. Compositions comprising the ABCC11 propertide may also be used in the treatment and/or prevention of a deficiency in the transport of cholesterol or inflammatory ligid substances and diseases mapped on the chromosome locus 16q12. ABCC11 protein can be used to treat pathologies linked to the transport of lipophilic substances. The invention is used in gene therapy. The present sequence is human ABCC11 intron/exon junction site
                                                                      tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound grapulation; intestinal adhesion; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 43; 118pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New ABCC11 nucleic acids and proteins, useful in manufacturing a medicament for treating and/or preventing paroxysmal kinesigenic choreoathetosis, or pathologies linked to the transport of lipophilic
                                                                                                                                                                                                                                                                                                                                         ABS77742 standard; DNA; 20
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Allikmets R, Denefle
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                     Synthetic
                                                                                                                                                                                         Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
                                                                                                                                                                                                                            Angiogenesis inhibitory oligonucleotide #226.
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(USSH ) US
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US DEPT HEALTH & HUMAN SERVICES.
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                                                                                                                                                                                                                                                                 entry)
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                                                                     Matches
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Best Local
                                                                                                                                                                                       The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psociasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rebeosts, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic sears. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200253141-A2
                                                                                                                                        Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Inhibiting angiogenesis in a subject, involves administering antiangiogenic nucleic acid molecule to the subject.
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                                  5393 AAAAAAATACAAAAAAGAAA 5412
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20 AAAAAAAAAAAAAAAAAAA 1
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                                                                                        Similarity
                                                                     Conservative
                                                                                                                                                                              invention
                                                                                    85.0%;
                                                                                                        0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
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                                                                                      Score 15.2; DB 1;
Pred. No. 9.3e+02;
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ID ABS780
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AC ABS780
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Anglog
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I1-DEC
XX
PD 11-JUL
XX
I4-DEC
XX
PR 14-DEC
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                                                                                                                                                                                                                  Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth; tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar.
  14-DEC-2000; 2000US-025534P
                                           14-DEC-2001; 2001WO-US048458
                                                                                                                                                                             Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                       Angiogenesis inhibitory oligonucleotide #556.
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                                                                                                                                    WO200253141-A2
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RESULT 882
ABS78076
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Best Local Similarity
                                                                                                                                                                                                                                                                                              tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to inhibiting angiogenesis in a subject, comprising administering at least one antiangiogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque neovascularisation, telangiectasia, haemophiliac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma a hypertrophic scars. The present sequence is an antiangiogenic nucleic
                                                                                                                                                                                                                                   Synthetic
                                                                                                                                                                                                                                                                               angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
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             WPI; 2002-566690/60
                                          Bratzler RL;
                                                                                                                                                                                                     WO200253141-A2
                                                                                                                                                                                                                                                                                                                                                                             Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
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                                                                                                                                       14-DEC-2001; 2001WO-US048458.
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                                                                        COLEY
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                                                                                                         2000US-0255534P.
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                                                                           GROUP INC
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Pred. No. 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        molecule. Also
the antiangiogenic
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Inhibiting angiogenesis in a subject, antiangiogenic nucleic acid molecule t
                                                                                                      nucleic acid molecule to the subject.
                                                                                                            involves administering
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                                                                                                             one
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Claim 2 Page 29; 276pp; English.

administering at least one antianglogenic nucleic acid molecule. Also included is a kit comprising a first container housing the antianglogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted anglogenesis. The method is useful for inhibiting anglogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia, rubeosis, Osler-Webber Syndrome, mycardial angiogenesis, plaque neovascularisation, telangiectasia, haemophilac joints, angiofibroma, wound granulation, intestinal adhesions, atherosclerosis, scleroderma and hypertrophic scars. The present sequence is an antiangiogenic nucleic The invention of the invention relates to inhibiting angiogenesis in a subject, comprising

Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;

밁 S Best Local Similarity Matches 17; Conserv Query Match Best Local 5393 АЛАЛАЛАТАСАЛАЛАСАЛА 5412 AAAAAAAAAAAAAAAAAAAA 20 Conservative 0.3%; <u>,</u> Score 15.2; Pred. No. 9. Mismatches 9.3e+02 BB Length Indels 20 0 Gaps 0

13-DEC-2002 ABS78288 Angiogenesis inhibitory oligonucleotide #772. ABS78288; standard; (first entry) DNA; 20 쁑

RESULT 883
ABS78228/C
ID ABS7822
XX ABS7822
XX ADS092
XX Angiog
XX Angiog
XX Angiog
XX Angiog
XX Angiog
XX Angiog
XX Electric
XX Illinibil
PT Inhibil
PT Inhibil tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis; diabetic retinopathy; retinopathy of prematurity; macular degeneration; corneal graft rejection; neovascular glaucoma; retrolental fibroplasia; rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularisation; telangiectasia; haemophiliac joint; angiofibroma; wound granulation; intestinal adhesion; atherosclerosis; scleroderma; hypertrophic scar. Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;

Synthetic.

WO200253141-A2

11-JUL-2002

14-DEC-2001; 2001WO-US048458.

14-DEC-2000; 2000US-0255534P.

Bratzler RL

(COLE-) COLEY

PHARM GROUP INC

2002-566690/60.

Inhibiting angiogenesis in a subject, antiangiogenic nucleic acid molecule t , involves administering at least one to the subject.

Claim 2; Page 33; 276pp; English.

administering at The invention relates to inhibiting angiogenesis i at least one antiangiogenic nucleic in a s subject, c d molecule. comprising e. Also

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RESULT 884
ABL39402/c
ID ABL394
XX ABL394
XX ABL394
XX IMMUNO
XX IMMUNO
XX ANTibo
KW ANTibo
KW ANGiog
XX Synthe
FH Key
FH Key
FH W02001
XX W02001
XX U02001

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                                                                                                                                                                                                                                                                                                               Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     included is a kit comprising a first container housing the antiangiogenic nucleic acids, and instructions for administering them to a subject having a condition characterised by unwanted angiogenesis. The method is useful for inhibiting angiogenesis associated with solid tumour growth, tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis, diabetic retinopathy, retinopathy of prematurity, macular degeneration, corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,
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                                                                                                                                                                                                                               Disclosure, Page 309; 312pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                angiogenesis; metastasis;
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                                                                                                                                                                                                                                                                                             cancer.
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The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for

treating or preventing cancer such as basal cell carcinoma, cancer, bone cancer, brain and central nervous system (CNS)

cancer,

cervical cancer,

cancer,

Query Match

Sequence

20 BP; 20 A; 0 C; 0 G; 0 T; 0 U;

0 Other;

Score 15.2;

DB 1; Length 20;

bladder

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RESULT 885
ABL38648
ID ABL386
XX ABL386
XX ARL186
XX Immuno
XX Antibo
KW Antibo
KW angiog
XX Synthe
PN WO2001
XX 22-JUN
XX 21-Cell ;
PT devel
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Best Local S
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                                                                                The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, cesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, pancreatic cancer, testicular cancer, rabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention
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Pred. No. 9.
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RESULT 886
ABL39403/c
ID ABL394
XX ABL394
XX ABL394
XX Immuno
XX Antibo
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XX Synthe
PN W02001
XX 22-JUN
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  RESULT 887
ABL39179/c
ID ABL391
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Best Local S
Matches 17
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                                                                                                                                                                                                                                                                                                                            The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, breast cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The presents sequence is an immunostimulatory oligonucleotide described in the
  ABL39179 standard; DNA; 20
                                                                                                                                                                                                                                                                      Sequence 20 BP; 0 A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 309; 312pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2002-154611/20.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-JUN-2001; 2001WO-US020154
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    angiogenesis; metastasis; cytostatic; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-APR-2002
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                                                                                                                                                                                                                                                                                                                 exemplification of the invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunostimulatory
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                                                                                                                                               5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                          17;
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                                                                                                                                                                                                             Similarity
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                                                                                                          AAAAAAAAAAAAAAAAA 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hartmann
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  acid SEQ ID
                                                                                                                                                                                       <u>.</u>
                                                                                                                                                                                       Score 15.2; D
Pred. No. 9.3e
0; Mismatches
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0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NO:
                                                                                                                                                                                                           DB 1; Length .3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  839.
                                                                                                                                                                                          Indels
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RESULT 888
ABL54775/c
ID ABL5477
XX ABL547
XX OABL547
XX OABL547
XX STOLL XX
DT 10-JUN
XX CD14 x
XX Single
XX Single
XX Single
XX Synthe
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                          ABL54775;
                                                                                                                                                 10-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-APR-2002
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The present invention relates to methods for treating or preventing cancer, involving administering to a subject having or at risk of developing cancer immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies. The methods are useful for treating or preventing cancer such as basal cell carcinoma, bladder cancer, bone cancer, brain and central nervous system (CNS) cancer, tissue cancer, cervical cancer, colon and rectum cancer, connective tissue cancer, cesophageal cancer, eye cancer, kidney cancer, larynx cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian cancer, stomach cancer, testicular cancer, rhabdomyosarcoma, skin cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the
Angiotensin-I converting enzyme; ACE; CD14; receptor; SNP; single-nucleotide polymorphism; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20 BP; 2 A; 8 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Treating or preventing cancer, such as basal cell carcinoma, comprises administering immunostimulatory nucleic acids that induce expression of cell surface antigens and antibodies to a subject having or at risk of
                                                                                                  CD14 receptor PCR primer SEQ ID NO 9.
                                                                                                                                                                                                                                                                                                    ABL54775 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2002-154611/20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGGAATAGGAGGACATGGA 5148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGATCAGGAGCGACATGGA 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                      (first
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                                                                                                                                                                                                                                                                                                    DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
                                                                                                                                                                      entry
                                                                                                                                                                                                                                                                                                       20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches
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Pred. No. 9.3e+02;
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ABK65035
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XX ABK6
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PR 11-1
PR 11
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Best Local S
Matches 17
                                                                                                                                                                11-AUG-2000; 2000US-0224631P.
08-DEC-2000; 2000US-0254392P.
11-DEC-2000; 2000US-025235P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-00820279.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a method for detecting 1 base polymorphism on the sequence of a chromosome or its fragment in which a sample nucleic acid is reacted with a reaction liquor containing a nucleic acid primer having a base adjacent to the polymorphic base at its 3'-end, one dideoxynucleotide corresponding to a polymorphic base having a distinguishable feature or its mixture, DNA polymerase and a composition required for its activity expression to detect the presence of taking dideoxynucleotide in the nucleic acid primer and to detect the type of the base to be specified. The method is used for detecting 1 base polymorphism on the sequence of a chromosome or its fragment. The present
                                                   Mirkin CA,
                                                                                                                                                                                                                                                                                                                                                                                   07-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200218643-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nanoparticle-oligonucleotide; nanofabrication; nucleic acid detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABK65035 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-JUL-2000; 2000JP-00225354
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                                                                                                                                                                                                                                                                                                                                      10-AUG-2001; 2001WO-US025237
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                                                                                                               NANOSPHERE INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          is that of a PCR primer, useful
                                  Letsinger RL, Garimella V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 10; 10pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; 0 C; 0 G; 20 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
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                            Mucic RC,
i Z, Park
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Pred. No. 9.3e+02;
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                                                         Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in examples of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1;
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The invention relates to a method of detecting a nucleic acid (NA) having at least 2 portions comprising; (a) providing nanoparticles (NP) with CC attached oligonucleotides (OGN), where OGN has a sequence complementary to the sequence of NA; (b) contacting NA and NP under conditions CC effective to allow hybridisation of OGN with NA; and (c) observing a CC method is useful for detecting a nucleic acid, separating a selected nucleic acid from others and methods of nanofabrication. Detecting analytes such as nucleic acids and proteins are useful for the diagnosis of genetic, bacterial and viral diseases. The OGN-NP conjugates that use cyclic disulphide linkers improve the sensitivity of diagnostic assays. In particular assays using OGN-NP conjugates prepared using linkers compusising a steroid residue attached to a cyclic disulphide have been conjugates prepared using alkanethiols or acyclic disulphide have been conjugates prepared using alkanethiols or acyclic disulphides as the CC directly in PCR solutions. Therefore conjugates added as probes to a DNA trarget to be PCR amplified can be carried through the 30 or 40 heating cooling cycles of the PCR and are still able to detect the amplicons without opening the tubes and causing contamination. ABK64981-ABK65055
Detecting nucleic acid, useful for diagnosis of genetic, viral or bacterial disease, comprises hybridizing nanoparticles with attached oligonucleotides to nucleic acid and detecting change brought about by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 18; Page 410; 412pp; English
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밁 á Matches Query Match 5393 AAAAAAATACAAAAAAGAAA 5412 17; Conserv μ AAAAAAAAAAAAAAAAAAA 20 Conservative 0.3%; 0; Score 15.2; DB 1. Pred. No. 9.3e+02 Mismatches DB 1; Length 20 Indels 0

0

Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;

Nanoparticle-oligonucleotide; nanofabrication; nucleic acid detection; Nanoparticle-oligonucleotide #70. 02-JUL-2002 ABK65050 standard; DNA; 20 (first entry) ВP

Synthetic. WO200218643-A2

RESULT 890
ABK65050
ID ABK650
XX ABK650
XX ABK650
XX Nanopa
XX HI-AU
PD 07-MAI
XX 11-AU
PR 11-AU
PR 11-DE
PR 11-DE
PR 12-JAI
PR 28-MAI
XX NANO
PA (NANO
XX NAICKI 11-AUG-2000; 2000US-0224631P. 08-DEC-2000; 2000US-0254332P. 11-DEC-2000; 2000US-0255235P. 12-UAN-2001; 2001US-00760500. 28-MAR-2001; 2001US-00820279. 10-AUG-2001; 2001WO-US025237 07-MAR-2002. (NANO-) NANOSPHERE INC.

Mirkin CA, Letsinger RL, Muc Taton TA, Garimella V, Li Z,

Mucic RC, S i Z, Park S;

Storhoff JJ,

Elghanian

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RESULT 891
ABS52449
ID ABS524
XX ABS524
XX ABS524
XX IS-NOV
DT 15-NOV
XX Human
XX B9; lo
KW System
KW INSUli
KW System
KW INSUli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cc effective to allow hybridisation of GGN with NA, and (c) observing a cc detectable change brought about by hybridisation of GGN with NA. The method is useful for detecting a nucleic acid, separating a selected cc method is useful from others and methods of nanofabrication. Detecting canalytes such as nucleic acids and proteins are useful for the diagnosis of genetic, bacterial and viral diseases. The GGN-NP conjugates that use cyclic disulphide linkers improve the sensitivity of diagnostic assays. C In particular assays using GGN-NP conjugates prepared using linkers comprising a steroid residue attached to a cyclic disulphide have been cc found to be approximately 10 times more sensitive than assays employing conjugates prepared using alkanethiols or acyclic disulphides as the clinker. The GGN-NP conjugates are stable allowing them to be used carget to be PCR amplified can be carried through the 30 or 40 heating cooling cycles of the PCR and are still able to detect the amplicons without opening the tubes and causing contamination. ABK64981-ABK65055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                         psoriasis; autoimmune thyroid disease; polymyositis; vitiligo; mixed connective tissue disease; dermatomyositis; vitiligo; pemphigoid; primary biliary cirrhosis; chronic active hepatitis; Crohn's disease; ulcerative colitis; pernicious anaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ss; long interspersed nuclear element; LINE-1; p40; PCR; primer; ORF1; ORF2; L1; Alzheimer's disease; autoimmune disease; schizophrenia; systemic lupus erythematosus; multiple sclerosis; scleroderma; insulin-dependent diabetes mellitus; rheumatoid arthritis; phemphigus; insulin-dependent diabetes mellitus; rheumatoid arthritis; phemphigus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              at least 2 portions comprising: (a) providing nanoparticles (NP) with attached oligonucleotides (OGN), where OGN has a sequence complementary to the sequence of NA; (b) contacting NA and NP under conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oligonucleotides to nucleic acid and detecting change brought about by hybridization.
                                                                          19-DEC-2000; 2000US-0256673P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human LINE-1 DNA associated PCR primer #2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABS52459 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a method of detecting a nucleic acid (NA) having at least 2 portions comprising: (a) providing nanoparticles (NP) with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 24; Fig 44; 412pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-258024/30.
                                                                                                                                                                                                                       15-AUG-2002
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                                                                                                                                                19-DEC-2001; 2001WO-US049353
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   HOSPITAL FOR SPECIAL SURGERY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nucleic acid, useful for diagnosis of genetic, viral or disease, comprises hybridizing nanoparticles with attached
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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Pred. No. 9
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RASULT 892
AAL45122/c
ID AAL451
XX
AC AAL451
XX
DT 24-MAY
DT 24-MAY
XX
Oligon
KW Oligon
KW Oligon
KW Oxidat
XX
OS Synthe
XX

24-MAY-2002

(first entry

AAL45122

AAL45122 standard; DNA; 20

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Oligonucleotide synthesis method related DNA #1

Oligonucleotide synthesis; polynucleotide array; protecting group;

밁 S

3590 ATGTTGCTCAGGCTAATCTC 3609

ATGTTGGCCAGGCTGATCTC 20

Query Match Best Local S Matches 17

Similarity

0.3%;

Score 15.2; Pred. No. 9. Mismatches

9.3e+02; ches 3;

0,

Gaps

0

DB 1; Length 20; Indels

Conservative

<u>,</u>

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CC (Li= long interspersed nuclear element, LINE-1). Also included are (1) CC identifying an individual at risk for or suffering from a complex disease CC comprises: (a) identifying or detecting the amount of intronic regions of genes containing full length L1 elements or in 5' or 3' regulatory CC genes containing full length L1 elements or in 5' or 3' regulatory CC regions of genes containing a full length high fidelity consensus L1 CC sequence of the individual's DNA from a sample; and (b) comparing the CC presence of the L1 sequence or its amount in the intronic regions of CC genes or the 5' or 3' regulatory regions with a control sample of DNA CC from an individual not susceptible to or at risk for or currently CC suffering from a complex disease, where the genes identified are involved in a complex genome; (2) treating or preventing a complex disease by CC antibody directed against L1 mRNA, and an antibody directed against the individual at risk for or suffering from a complex disease, by detecting antibodies or auto CC antibodies directed against ribonucleo-protein particles having L1 mRNA CC complements, L1 DNA, mRNA or protein products which indicates that the CC individual is at risk for or suffering from a complex disease or auto capture of the sease, autoimmune disease, schizophrenia, systemic lupus crical complements, phemphigus, psoriasis, autoimmune thyroid disease, cleroderma, maxed connective tissue disease, schizophrenia, systemic lupus clirary cirhosis, chronic active hepatitis, Crohn's disease, ulcerative the protein products of L1 clements, either ORF1/P40 or ORF2 gene products can be used to indicate the prosence in cells, tissue, or body fluids of potential immune system criggers that can induce or exacerbate autoimmune disease. The present
Sequence
                                            triggers that can induce or exacerbate autoimmune sequence is a PCR primer included in the sequence referred to anywhere else in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Crow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 137; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying a gene involved in a complex disease, e.g. schizophrenia, comprises detecting genes having full-length L1 element in their intronic region or high sequence fidelity to L1 consensus sequence in the 5' or 3'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       comprising identifying genes containing full-length L1 elements in their intronic region or containing a full length L1 element with high sequence fidelity to the L1 consensus sequence in their 5, or 3, regulatory region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to identifying a gene involved in a complex disease
     20
BP; 3 A; 5 C; 6
  G; 6 T; 0
     <u>.</u>
     0 Other;
                                                                                   listing
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RESULT 893
ABQ80721
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention relates to a method for the synthesis of a polynucleotide which involves coupling a second nucleoside to a first nucleoside through a phosphite linkage, where the second nucleoside has a non-carbonate protecting group protecting a hydroxyl, and exposing the product to a composition which concurrently oxidizes the phosphite formed to a phosphate and deprotects the protected hydroxyl of the second nucleoside. The method estill for synthesizing the polynucleotides, for carrying out either 3' to 5' or 5' to 3' synthesis and for fabricating an addressable array of polynucleotides on a substrate. The present sequence is an oligonucleotide produced to demonstrate the method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Synthesis of polynucleotide useful during fabrication of an array involves coupling nucleoside phosphoramidite and a solid-supported nucleoside and treating the product with an oxidation/deprotection
                                                                                                                                                                                               Salmonella
                                                                                                                                                                                                                                             Salmonella toxin gene stn mRNA-binding oligonucleotide #6.
Novel oligonucleotide for detecting Salmonella toxin gene invA or
                                                                                                17-JAN-2001; 2001JP-00009464
                                                                                                                       17-JAN-2002; 2002EP-00001254
                                                                                                                                                                       EP1233073-A2
                                                                                                                                                                                                                                                                      22-NOV-2002
                                                                                                                                                                                                                                                                                             ABQ80721;
                                                                                                                                                                                                                                                                                                                    ABQ80721 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-JUL-2000; 2000US-00627249
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                         WPI; 2002-668421/72.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the invention
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                                              Ishiguro
                                                                                                                                                                                                                                                                     (first
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                                                                                                                                                                                                                     primer;
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                                                                                                                                                                                                                                                                     entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 C; 0 G;
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0 Other;
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RESULT 8:
ADLIA6232
ID
ACC ABLIA
ACC ABLIA
XX ABLIA
XX ABLIA
XX Skir
X
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                    The present invention relates to a method of inhibiting skin inflammation associated with a skin disorder selected from psoriasis, atopic dermatitis and allergic contact dermatitis, which involves administering a composition containing delipidated and deglycolipidated Mycobacterium vaccae cells or M. vaccae culture filtrate. The skin disorder to be treated may also include alopedia areata, and skin cancers such as basal cell carcinoma, squamous cell carcinoma and melanoma. The composition acts by inhibiting the Th2 immune response. The present sequence is a probe described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Skin disorder; psoriasis; atopic dermatitis; allergic contact dermatitis; alopecia areata; skin cancer; Mycobacterium vaccae; melanoma; cytostatic; antipsoriatic; dermatological; antiinflammatory; antiallergic; Th2 immune response; immunomodulatory; probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detecting Salmonella toxin genes invÅ or stn mRNA, which are capable of specifically binding to Salmonella toxin gene invA or stn mRNA. The oligonucleotides are useful as primers for amplifying the target RNA (Salmonella toxin gene invA or stn mRNA or their complementary sequence), and allow simple, rapid and highly sensitive amplification and detection
                                                                                                                                                                                                                                                                                                                                                                                                                          Inhibiting skin inflammation associated with skin disorder e.g. psoriasis, by administering composition comprising delipidated deglycolipidated Mycobacterium vaccae cells or Mycobacterium va
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Watson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23-DEC-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABL36232 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                                           Example 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-DEC-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mycobacterium
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                                                                                                                                                                                                                                                                                                                                           Col 99-100;
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Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                           English
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RESULT 895
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DE Candid
XX FUNGUIG
KW Signal
KW FUNGUIG
KW PO2002
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XX PO2002
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                           collarion which both alleles of a gene are modified, comprising modifying connected by insertion or replacement by a cassette having an compoundation, of a promoter replacement fragment with a heterologous commoter, (MI) is useful for constructing a strain of diploid fungal cells in which both alleles of a gene are modified. The diploid fungal cells in which both alleles of a gene are modified. The diploid fungal cells having both alleles modified are useful for identifying a gene that contributes to the virulence and/or pathogenicity of a fungus, a gene that contributes to the resistance of a diploid fungus to an antifungal agent that inhibits the growth of a fungus, a gene conductivity of a diploid fungus and for identifying a therapeutic agent for treatment of a mammalian compound catabolism, biosynthetic, transporter, transcriptional, compound catabolism, biosynthetic, preferably enzymatic activity, carbon compound catabolism, biosynthetic, transporter, transcriptional, compound catabolism, biosynthetic, transporter, transcriptional, compound catabolism, biosynthetic, transporter, transcriptional, compound catabolism, biosynthetic, preferably enzymatic activity, carbon compound catabolism, biosynthetic, transporter, transcriptional, compound catabolism, compound catabolism, compound catabolism, compound cactivity of a fungus, compound catabolism, compound catabolism, co
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to constructing (M1) a strain of diploid fungal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 36; SEQ ID NO 4750; 167pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Constructing strains for identifying gene products as effective targets for therapeutic intervention, by inaccivating in the strain one allele of a gene and placing other allele of the gene under conditional expression.
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20-FEB-2001; 2001US-00792024.
22-AUG-2001; 2001US-0314050P.
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Pred. No. 9.3e+02;
0; Mismatches 3;
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                   activating a bone density regulating transmembrane receptor (BSMR protein). An expression vector comprising a promoter that is operably linked to BSMR DNA is useful for modulating bone density and for enhancing bone strength and mineralisation in a mammal cell. Composition comprising a BSMR effector is useful for treating osteoporosis and is useful particularly as a coating for prosthetic devices and surgical implants. BSMR is useful for screening lead pharmaceutical agents as BSMR implants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
                                                                                             effectors, which may be used to treat a range of eye disorders such as diabetic retinopathy, hypertensive retinopathy and retinopathy of prematurity, in which normal vascular growth and integrity of ocular vessels is disrupted. The present sequence is a PCR primer used to amplify cDNA and gDNA molecules useful for detecting polymorphic BSMR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to bone strength and mineralisation regulatory protein (BSMR) and its corresponding nucleic acid sequence. BSMR DNA is useful for the diagnosis or therapy of osteoporosis and for regulating (increasing) bone strength and mineralisation in a human subject by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD34368 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Polynucleotide encoding bone protein useful for diagnosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2002-329694/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-AUG-2000; 2000US-0226119P.
22-SEP-2000; 2000US-0234337P.
13-JUL-2001; 2001US-0304851P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           bone strength; mineralisation; ophthalmological; antidiabetic;
bone density regulating transmembrane receptor; prosthetic device;
surgical implant; diabetic retinopathy; hypertensive retinopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human BSMR gene polymorphism detecting PCR primer, LRGEN23R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          therapy; osteoporosis; prematurity; ocular vessel; eye disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; bone strength and mineralisation regulatory protein; BSMR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5070 TCATCTGGTGGCCACAGCAG 5089
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fig 5; 124pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gong Y,
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85.0%; Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rawadi G,
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                  attached to it, which has a sequence complementary to sequence of two portions of nucleic acid, contacting nucleic acid and nanoparticles, to allow hybridisation of oligonucleotides with two or more portions of nucleic acid, and observing a detectable change brought about by conjugates (II) and the aggregate probe are useful for detecting two or more nucleic acids (from a biological source) having at least two or more nucleic acids (from a biological source) having at least two or more nucleic acids (from a biological source) having at least two or more nucleic acids (from a biological source) having at least two or more nucleic acids (from a biological source) having at least two or portions, such as viral RNA, bacterial or fungal DNA, a gene associated with a disease, synthetic, or structurally-modified natural or synthetic can analyte, and for preparing a nanoprobe conjugate for detecting an analyte, and for detecting a nucleic acid bound to an electrode surface.

(I) and (II) are useful for fabrication, and for separating a selected nucleic acid having two portions from other nucleic acids. (I), (II) and the aggregate probe are useful for detecting an analyte (especially polyvalent analyte) in a sample. This sequence represents a colyvalent analyte) in a sample. This sequence represents a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mirkin
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11-DEC-2000;
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nanoparticle; viral RNA detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 18; Page 437; 442pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-608256/65.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               07-DEC-2001; 2001WO-US046418
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention describes a method of detecting (M1) a nucleic acid having
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2000US-0255235P.
2000US-0255236P.
2001US-00760500.
2001US-00820279.
2001US-0082640P.
2001US-00927777.
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A detection; bacterial DNA detection;
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Pred. No. 9.
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11-DEC-2000; 2000US-0255236P.
12-JAN-2001; 2001US-00760500.
28-MAR-2001; 2001US-0082079.
09-APR-2001; 2001US-0282640P.
10-AUG-2001; 2001US-00927777.
nucleic acid, and observing a detectable change brought about by hybridisation. (M1), nanoparticles (I), nanoparticle-oligonucleotide conjugates (II) and the aggregate probe are useful for detecting two or more nucleic acids (from a biological source) having at least two portions, such as viral RNA, bacterial or fungal DNA, a gene associated with a disease, synthetic, or structurally-modified natural or synthetic RNA or DNA, or a product of a polymerase chain reaction amplification. (II) is useful for preparing a nanoprobe conjugate for detecting an analyte, and for detecting a nucleic acid bound to an electrode surface. (I) and (II) are useful for fabrication, and for separating a selected nucleic acid having two portions from other nucleic acids. (I), (II) and the aggregate probe are useful for detecting an analyte (especially polyvalent analyte) in a sample. This sequence represents a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change.
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08-DEC-2000; 2000US-0254418P

11-DEC-2000; 2000US-0255235P

11-DEC-2000; 2000US-0255236P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 24; Fig 44; 442pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-608256/65.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mirkin CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-DEC-2001; 2001WO-US046418
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NANO-) NANOSPHERE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ARABARARARARARARARA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Letsinger RL, Mucic RC, Storhoff JJ, Garimella V, Li Z, Park S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        detection method associated polynucleotide #70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.3%;
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Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 1; Length 20;
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RESULT 899
ABN86365/c
RESULT 900
AAD44814/c
ID AAD44814 standard; DNA;
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Best Local S
Matches 17
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                 The invention relates to the treatment of paramyxovirus infection that involves administration of an active ingredient such as RANTES chemokine (I) or an expression system (II). (I) and (II) are used in the treatment and diagnosis of paramyxoviral infection, especially in children. RANTES chemokine has a significant effect on respiratory infections caused by paramyxovirus. RANTES acts downstream of viral entry and signals through specialfic CCR1 and/or CCR5 chemokine receptors to interrupt the death pathway of macrophages which have been infected by virus. RANTES not only inhibits apoptosis of infected macrophage but also clears the macrophage of infection. The present sequence represents a PCR primer specific for
                                                                                                                                                                            Sequence 20 BP; 5 A; 0 C; 11 G; 4 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                              Use of RANTES chemokine or an expression system in treatment and diagnosis of paramyxovirus infection, especially in children.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-OCT-2000; 2000US-0243264P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Paramyxovirus; infection; apoptosis; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RANTES DNA amplifying primer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABN86365;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABN86365 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 8; 19pp; English.
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                                                                                    228 CCCTCACCCTCACCCTCCCT 247
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                                                                                                                                      Similarity
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                                                                     CCCTCACCATCATCCTCACT 1
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                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        infection; RANTES; chemokine; antiviral; CCR1; CCR5;
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  ΒP
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                                                                                                                                                  Score
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Pred. No. 9.3e+02;
                                                                                                                                      Pred.
                                                                                                                         Mismatches
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                                                                                                                                    No. 9.
                                                                                                                                    DB 1; Length 20; .3e+02;
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16-FEB-2002

(first entry)

ABI96122;

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RESULT 901
ABI96122/c
ID ABI961
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AC ABI961
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DT 16-FEB
XX
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Best Local S
Matches 17
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07-JUL-1997;
06-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention relates to novel antisense oligonucleotides which are targetted to nucleic acids encoding human raf proteins and capable (inhibiting raf expression. The invention also relates to methods of inhibiting hyperproliferation of cells which involves contacting the hyperproliferating cells with a therapeutically effective amount of an oligonucleotide of the invention. The method is useful for treating cancer, angiogenesis or neovascularisation, especially ocular angiogenesis or neovascularisation. The present DNA sequence is an angiogenesis or neovascularisation. The present DNA sequence is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; raf; hyperproliferation; neovascularisation; ocular angiogenesis; therapy; cancer; cytostatic; anti-angiogenic; vascular; ophthalmological; antisense; phosphorothicate backbone; B-raf kinase; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human B-raf kinase antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 20 BP; 2 A; 3 C; 1 G; 14 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Treating cancer, angiogenesis or neovascularization by administering antisense oligonucleotides targeted to human raf sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-DEC-2002
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                                                                                                               ABI96122 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                antisense oligonucleotide targetted to human B-raf kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 18; Col 26; 41pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ISIS-) ISIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-MAY-1994;
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                                                                                                                                                                                                                                                               5412 AAAATGAAAATAAAGGAATA 5431
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                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                  Conservative
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98WO-US013961.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note= "Phosphorothioate backbone"
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                                                                                                               DNA;
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                                                                                                               BP
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                                                                                                                                                                                                                                                                                                                                          Score 15.2; DB 1; Length Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                     .3e+02;
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Capture oligonucleptide Zip ID#3209 oligo #9

NO:56

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RESULT 902
ABN86937/c
ID ABN869
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AC ABN869
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DT 29-JUL
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                                                                                                                                                                                                                                                                                                                                                                                               CC oligonuclectide probes (II) will hybridise with little mismatch, where (I) have melting temperatures within a marrow range. The method is useful (I) have melting temperatures within a marrow range. The method is useful (I) have melting infectious diseases caused by bacterial infectious agents (II) will hybridise with little mismatch, where (I) have melting infectious diseases caused by bacterial infectious agents (I) cryptococcus necformans, Candida albicans and (I) fifetious agents (I) cryptococcus necformans, Candida albicans and (I) stein-Barr virus and polio virus, and parasitic infectious agents (I) getein-Barr virus and polio virus, and parasitic infectious agents (I) selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus (I) selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus (I) selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus (I) selected from Standard (I) selecting comprises scanning (I) single 93. a scanning (I) selection sites and infrared microscope) the support at the food and feed industry, detecting (I) selection of the oligonuclectide probe sets occurred and correlating (I) selection sequences. ABIS2074 to of the present invention
                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; K-ras; PCR primer; probe; capture probe; mutation detection; ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease; infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer; oncogene; tumour suppressor; human papillomavirus; forensic; environmental monitoring; food industry; feed industry; ss.
                                                                                                                                                                                                                                                                                                                                                  Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002-034366/04.
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                      29-JUL-2002
                                                            ABN86937;
                                                                                                ABN86937 etandard;
                                                                                                                                                                                                                                                                                                                                                                                       of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Designing capture oligonucleotide probes complementary oligonucleotides hybridize
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        present invention describes a method (M1) for designing capture
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                                                                                                                                                                                                                                                                    h 0.3%;
Similarity 85.0%;
17; Conservative
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                                                                                                                                                                                                                                                                                                                                                  BP; 3
                      (first entry)
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                                                                                                                                                                                                                                                                                                                                                  A; 8 C; 5 G; 4 T; 0
                                                                                                DNA,
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                                                                                                20
                                                                                                ВP
                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                        Score 15.2; DB 1
Pred. No. 9.3e+02
                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                  Ų,
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                                                                                                                                                                                                                                                                                                                                                  0 Other;
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16-OCT-2000; 2000US-0240637P.
16-OCT-2000; 2000US-0240648P.
16-OCT-2000; 2000US-0240662P.
16-OCT-2000; 2000US-0240659P.
16-OCT-2000; 2000US-0240703P.
16-OCT-2000; 2000US-0240703P.
16-OCT-2000; 2000US-0240713P.
18-JAN-2001; 2001US-0262455P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; NOVX; cytostatic; antiarteriosclerotic; cardiovascular; lymphoma; antidiabetic; immunosuppressive; neuroprotective; gene therapy; cancer; cardiomyopathy; atherosclerosis; cell signal processing; diabetes; AIDS; metabolic pathway modulation; neoplastic; neurological disorder; asthma; adenocarcinoma; prostate cancer; uterus cancer; immune response; Crohn; disease; multiple sclerosis; Graft versus host disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human NOV4 reverse PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                     (CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          12-OCT-2000; 2000US-0240113P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-OCT-2001; 2001WO-US031922.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200230974-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                    CURAGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0240625P
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Grosse WM, Kekuda R, Edinger S, Alsobrook JP, Lepley DM, Burg Li L, Padigaru M, Shimkets RA, Gerlach V, Macdougall J, Ston Stone D, Burgess CE, Zerhusen BD, D, Gunther E, Mishra V; Spytek KA; , Ellerman

2002-444172/47.

New NOVX polypeptides and polynucleotides, useful for treating or preventing a NOVX-associated disorder or a pathological state in a subject, particularly a human, e.g. cardiomyopathy, atherosclerosis, cancer or diabetes.

Example 2; Page 178; 227pp; English.

The present invention describes novel human proteins designated NOVX (c) (where X is 1, 2a, 2b, 2c, 2d, 3, 4, 5, 6a, 6b, 7, 8, or 9). NOVI is a CC tyrosine-protein kinase 6-like protein; NOV2a-d are keratin 4-like CC protein; NOV3 is a collagen-like protein; NOV4 is a cystatin B-like protein; NOV8 is a serotonin receptor-like protein; NOV6a and NOV55v are CC cold inducible glycoprotein 30-like protein; NOV7 is a matrilin-2-like protein; NOV6 is a leukocyte surface antigen (CD53)-like protein; and CC NOV9 is a tyrosine kinase-like protein. NOVX sequences have cytostatic, CC antiarteriosclerotic, cardiovascular, antidiabetic, immunosuppressive and can be used in gene therapy. The NOVX CC sequences can be used in therapeutics, particularly for treating, CC preventing or alleviating a NOVX-associtated disorder or a pathological convergence are also useful for determining the protein. The NOVX Sequences are also useful for determining the presence of or predisposition to a disease associated with altered levels of NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX concessing and metabolic pathway modulation or diabetes. The NOVX sequences are also useful for determining the presence of or predisposition to a disease associated with altered levels of NOVX concessing and metabolic pathway modulation or diabetes. The NOVX sequences are conceally useful in the repartic applications for conceplastic or neurological disorders, and in the treatment of conceplastic or neurological disorders, and in the treatment of conceplastic or protein sequence represents a PCR primer for human NOV4, which is used in an example from the present invention and

Sequence 20 BP; 3 A; 3 C; 6 G; 8 T; 0 U; 0 Other;

Query Match

Score 15.2; DB 1; Length 20;

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RESULT 903
ABN87103/c
ID ABN8711
AC ABN871
XX ABN871
XX Protei
XX Protei
XX Synthe
XX Synthe
XX Synthe
XX Ho-OC7
XX 16-OC7
XX I6-OC7
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XX New nx
PT Reseal
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XX Discl
XX Disc
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                                                                                                                                                                                           The present invention describes a non-antibody protein, comprising a cc domain having an immunoglobulin-like fold, derived from a reference protein having a mutated amino acid sequence, where the non-antibody cc protein binds with a Kd at least as tight as 10 nM to a compound that is not bound as tightly by the reference protein. The non-antibody protein cis useful as scaffolds for selecting or designing a protein framework with specific and favourable properties, e.g. for binding any antigen of interest, or for destroying or inactivating antibody molecules. The non-antibody protein is also useful in all areas where antibodies are used, c.g. research, therapeutic or diagnostic fields, and for screening novel binding proteins useful in the above-mentioned fields. The present cc proteins have thermodynamic properties superior to those of natural antibodies, and can be evolved rapidly in vitro. The present proteins or cantibody minics exhibit improved biophysical properties, such as concentrations. In addition, these molecules are readily expressed and concentrations. In addition, these molecules are readily expressed and colded in prokaryotic systems (e.g. Escherichia coli), in eukaryotic systems (e.g. veast), or in in vitro translation systems (e.g. rabbit creticulocyte lysate system). Purthermore, these proteins are extremely camenable to affinity maturation technologue involving multiple cycles of selection, e.g. in vitro selection using RNA-protein fusion technology, phage display or yeast display systems. The present sequence is used in the exemplification of the present invention
          Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 85.0 Matches 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New non-antibody proteins having an immunoglobulin fold, useful in research, therapeutic or diagnostic fields, particularly as scaffo designing proteins with specific properties, e.g. for binding any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABN87103 standard; DNA; 20 BP
                                                                                                                                              Sequence 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JUL-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4816 ATCAACACCAGCCCTTGACC 4835
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                                                                                                                                           BP;
                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
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                                        0.3%;
                                                                                                                                           0 C; 0
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0;
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                                                                                                                                           G; 20 T; 0 U; 0 Other;
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          Score 15.2; DB 1; Pred. No. 9.3e+02; 0; Mismatches
                                                                          DB 1; Length 20;
             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
          0,
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          Gaps
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RESULT 904
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XX Human
XX Human
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XX Homo (
OS Synth(
XX Key
FT modif(
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                                                                                                                                            Novel antisense compounds targeted to nucleic acids encoding interleukin-
12 p35 subunit, useful for modulating interleukin-12 p35 subunit expression and treating diseases associated with expression of the subunit in humans.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US6399379-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human IL-12 p35 subunit DNA antisense oligonucleotide ISIS #139026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                 07-MAY-2001; 2001US-00851520
                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-MAY-2001; 2001US-00851520.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prophylactic;
                                                                                                 Claim 3;
                                                                                                                                                                                                                                                                    WPI; 2002-535980/57.
                                                                                                                                                                                                                                                                                                                    Baker BF,
                                                                                                                                                                                                                                                                                                                                                                 (ISIS-) ISIS PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   modified_base
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                                                                                               Col 49-50; 44pp; English
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                                                                                                                                                                                                                                                                                                                 Freier SM;
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16. .20
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/mod_ba
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/note= "2'-methoxyethyl (MOE) residues"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mod_base=
12. .13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note= "2'-methoxyethyl (MOE) residues"
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The present invention relates to novel antisense oligonucleotides which specifically hybridise with specific regions of nucleic acids encoding interleukin-12 (IL-12) p35 subunit and inhibit the expression of human 1

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RESULT 905
ACA63945/c
ID ACA639
XX ACA639
XX ACA639
XX Novel
XX Novel
XX Novel
XX Human,
XX Human,
XX Acaca
XX Human,
XX Acaca
XX Homo s
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Best Local S
Matches 17
 17-OCT-1997
13-NOV-1997
13-NOV-1997
21-NOV-1997
21-NOR-1998
11-MAR-1998
11-MAR-1998
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11-MAR-1998
12-MAR-1998
12-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
27-MAR-1998
27-MAR-1998
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27-MAR-1998
31-MAR-1998
31-MAR-1998
31-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic; antidiabetic; gene therapy; inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; cancer; diabetic complication; chromosome mappin gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor; tissue typing; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -12 p35 subunit. Sequences of the invention are useful for inhibiting the expression of human II-12 p35 subunit in human cells or tissues and for treating animals, particularly humans suspected of having or being prone to diseases or conditions associated with expression of II-12 p35 subunit. They are useful for diagnostics, therapeutics and as research reagent, e.g. prophylactically to prevent or delay infection, tumour formation or inflammation. Sequences of the invention are useful for antisense therapy. The present sequence is an antisense oigonuclectide targetted to human II-12 p35 subunit DNA. This sequence is used in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                              24-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US2002192706-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACA63945;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACA63945 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19-DEC-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 0.3%;
l Similarity 85.0%;
17; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     secreted and transmembrane protein related primer #237.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BP; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                2001US-00999832
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 97US-0062250P

97US-0064249P

97US-0065311P

98US-0077632P

98US-0077641P

98US-0077641P

98US-0077641P

98US-0077641P

98US-00778004P

98US-0078004P

98US-0078930P

98US-0078930P

98US-0079294P

98US-0079294P

98US-0079663P

98US-00797664P

98US-00797868P

98US-0079786P

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98US-0079786P

98US-0079786P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G; 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 15.2; DB 1; Length Pred. No. 9.3e+02; O; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ۲,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
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31-MAR-1998

31-MAR-1998

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01-APR-1998

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08-APR-1998

08-APR-1998

09-APR-1998

15-APR-1998

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22-APR-1998

23-APR-1998

23-APR-1998

24-APR-1998

25-APR-1998

27-APR-1998

27-APR-1998

27-APR-1998

28-APR-1998

29-APR-1998

29-APR-1999

20-DEC-1999

30-DEC-1999

30-DEC-2900

30-DEC-2000

30-MAY-2000

30-MA
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98US-0080197P
98US-0080132PP
98US-0080333PP
98US-0080333PP
98US-0081049PP
98US-0081071PP
98US-0081103PP
98US-0081123PP
98US-00811817PP
98US-0081813PP
98US-0081813PP
98US-0082568PP
98US-0082704PP
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98US-0081181PP
98US-00818181PP
98US-00818181P
98US-0081818
99WO-US002704PP
98US-0082851
99WO-US002704PP
98US-00828
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(GETH _ GENENTECH INC.

Ashkenazi AJ Ferrara N, Goddard A, Kljavin IJ, Stewart TA, zi AJ, Baker KP, Botstein D, N, Filvaroff B, Fong S, Gg A, Godowski PJ, Grimaldi JC IJ, Kuo SS, Napier MA, Par TA, Tumas D, Williams PM, Botstein D, Desnoyers L, Eaton DL; rong S, Gao W, Gerber H, Gerritsen ME; Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J, Paoni NF, Roy MA, Shelt lliams PM, Wood WI; Shelton DL;

WPI; 2003-328860/31.

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Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention describes an isolated nucleic acid (I) comprising, or which is at least 80 % sequence identity to, or the full-length coding sequence of, any of 118 300-2100 nucleotide sequences, which encodes its corresponding PRO polypeptide selected from 118 100-700 mino acid sequences, all given in the specification. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, or diabetic complications. The nucleic acids are useful as hybridiastion probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. This sequence represents a novel human secreted and transmembrane PRO polypeptide associated primer
                                                                                                                                                                                                                                                                                                                                                                                                                            Antisense oligonucleotide; cytostatic; immunosuppressive; antiinflammatory; gene therapy; hyperproliferative disorder; cancer; autoimmune; inflammatory disorder; inhibitor-kappa B kinase-gamma; ss;
                                                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New secreted and transmembrane nucleic acids and polypeptides, designated as PRO, useful for treating inflammation, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, or
                  06-OCT-2001; 2001US-00972607
                                               03-OCT-2002; 2002WO-US031809
                                                                                                            WO2003031576-A2
                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antisense oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-NOV-2003 (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADA44747;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADA44747 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 114; Page 187; 453pp; English.
                                                                                                                                                                                                                                                                                                                                   modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5196 TCAGCGTGGGAGGCCACGTG 5215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                       /note= "
16. .20
                                                                                                                /*tag= c
/mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE) nucleotides<sup>n</sup>
                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                       /mod_base= OTHER
/note= "2'-methoxyethyl (2'-MOE)
                                                                                                                                                                                                                                                                      /note= "Phosphorothioate linkages, all cytosines are
methylcytosine"
                                                                                                                                                                                                                                                                                                     mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 15.2; DB 1;
Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                         nucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 907
AAL61645
ID AAL616
XX AAL616
XX AAL616
XX Iniol-
PT OB-OCT
PR 07-DE(
XX INIO-
PR 07-DE(
XX INIO-
PT PARK (
XX I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to an antisense compound that is targeted to a compounded control of the invention relates to an antisense compound that is targeted to a compounded control of the invention are antisense control of the invention are antisense conjugnuclectides comprising at least one modified internucleoside conjugnucleotides comprising at least one modified internucleoside conjugnucleotides comprising at least one modified sugar conjugnucleotides, which is a phosphorothioate linkage, at least one modified sugar moiety, which is a 2-0-methoxyethyl sugar moiety, or at least one conjugnucleotide is a chimeric oligonucleotide. The compound of contisense oligonucleotide is a chimeric oligonucleotide. The compound of the invention is useful for preparing a composition for treating a composition for treating a composition for treating a composition for inhibiting the compound of inflammatory disorder. The methods are useful for inhibiting the composition of inhibitor-kappa B kinase-gamma in cells or tissues, and confirm an antisense of inhibitor-kappa B kinase-gamma. Sequences given in ADA44713-ADA44790 conhibitor-kappa B kinase-gamma. Sequences given in ADA44713-ADA44790 conhibitor-kappa B kinase-gamma mana lavels.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 0.3%;
Best Local Similarity 85.0%;
Matches 17; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Thiol-modified oligo #4 used in the nucleic acid detection method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAL61645 standard; DNA; 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-MAY-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2003035829-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAL61645;
                                                                                                                                                                                                                                                                 (NANO-)
                                                                                                                                                                                                                                                                                                                                  09-OCT-2001; 2001US-0327864P.
07-DEC-2001; 2001US-00008978.
                                                                                                                                                                                                                                                                                                                                                                                                                                  08-OCT-2002; 2002WO-US032088
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5000 AGGTGGCCTAACAGCATCTC 5019
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                                                                                                                                                                                                                                                                 NANOSPHERE INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fabrication;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.2;
Pred. No. 9.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
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Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and

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allow hybridization,

and observing detectable

WPI; 2003-430409/40.

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Taton TA,

Mirkin

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RESULT 908
AL61472/c
ID AAL614
XX AAL614
XX Human
XX Human;
XW Human;
XW Human;
XW Iiver
XW I
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; activating transcription factor 3; ATP3; ischaemia; diabetes; liver regeneration factor-1; LRF-1; antisense therapy; CRG-5; LRG-21
                                                            08-NOV-2001; 2001US-00010002.
                                                                                                                     04-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                           modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-SEP-2003
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                                                                                                                                                                                                                                       WO2003040161-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 18; Page 179;
         (ISIS-) ISIS PHARM INC.
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                                                                                                                                                                                                                                             /*tag= c
/mod_base= OTHER
/mote= "2'methoxyethyl nucleotides"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mod_base= OTHER
/note= "Phosphorothioate backbone; All cytidines
methylcytidines"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                         /*tag= b
/mod_base= OTHER
/note= "2'methoxyethyl nucleotides"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 15.2; DB 1;
Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ISIS 185455.
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ID ABZ598
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AC ABZ598
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O1-APR
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Potato
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Potato; plant; mitochondrial carrier protein; elongation factor transferrin binding protein; receptor-like protein kinase; helic non-long terminal repeat retroelement reverse transcriptase; overwatering; transgenic; reverse transcriptase; PCR; primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New antisense oligonucleotide compounds, useful for diagnosing, preventing and/or treating conditions with aberrant activity of activating transcription factor 3, such as ischemia and diabete
                                                                                                                                                                                                                                     New DNA sequences from potato, useful for producing plants with altered properties, e.g. tolerance of flooding, also related proteins, antibodic
                                                                                                                                                                                                                                                                                                                                                                               Buelow L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-MAR-2001; 2001DE-01014063.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-MAR-2001; 2001DE-01014063
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                                                                                                                                                                                                                                                                                                                                                                                                                                                (MPBC-) MPB COLOGNE GMBH MOLECULAR PLANT
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                                                                                                                                                                                                                                                                                                                                                                                        Tscharntke
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Pred. No. 9
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and diabetes.
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The invention relates to DNA sequences (I) that encode six specific plant proteins: (i) a protein (ABP60425) with mitochondrial carrier protein activity (IIa), (ii) a protein (ABP60426) with transferrin binding protein activity (IIb); (iii) a protein (ABP60427) with receptor-like

Example 1;

Page

German.

sequences. 8; 26pp;

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RESULT 910
ACA72109/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC protein kinase activity (IIc); (iv) a protein (ABB60428) with elongation CC factor EF-2 activity (IId); (v) a protein (ABB60429) with non-long CC terminal repeat retroelement reverse transcriptase activity (IIe); or CC (vi) a protein (ABB60430) with helicase activity (IIf). (I), also related CC sequences, derived ribozymes and antiesnse sequences, expression vectors, CC encoded proteins and antibodies against the proteins, are used to produce CC plants with altered properties, including tolerance of overwatering. The CC immunoassays. Also (I) or their primer or probe fragments are used to CC content for terminators and constitutively, aerobically or anaerobically CC ended for the promoters, specifically for use in potatoes and the CC sequence that encodes (IId) is used to alter the translation profile in CC plants. Since (I) are derived from potato, their promoters and CC terminators provide high level transgene expression in potato, with CC improved tissue specificity and inducibility, and can also be used to CC control endogenous genes. The present sequence is that of a PCR primer very
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Best Local Similarity
17-OCT-1997
03-NOV-1997
13-NOV-1997
21-NOV-1997
21-NOX-1998
11-MAR-1998
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11-MAR-1998
12-MAR-1998
12-MAR-1998
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20-MAR-1998
20-MAR-1998
20-MAR-1998
20-MAR-1998
                                                                                                                                                                                                                                                                                                                                                Human; ds; thrombolytic agent; interferon; interleukin; cytokine; erythropoietin; colony stimulating factor; cancer; colorectal carcinoma; apoptosis related condition; AIDS; amyotrophic lateral sclerosis; inflammatory disease; asthma; atherosclerosis; neurodegenerative disease; gastrointestinal disorder; Alzheimer's disease; Parkinson's disease; hypertension; myocardial ischaemia; kidney disease; carcinogenesis; precedampsia; bronchial asthma; gastric ulcer; renal failure; cardiovascular disease; inflammatory bowel disease; reproductive disorder; premature labour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACA72109 standard; DNA; 20 BP
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                                                                                                                                                                                                                                         2001US-00978192.
97US-0062250P
97US-0064249P
97US-0065311P
97US-0065364P
98US-0077632P
98US-0077641P
98US-0077641P
98US-0077641P
98US-007794P
98US-0078004P
98US-007801P
98US-0078939P
98US-0078939P
98US-0079294P
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Pred. No. 9
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27-MAR-1998
26-JUN-1998
07-OCT-1998
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11-FEB-2000
11-FEB-2000
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11-FEB-2000
11-FEB-2000
11-MAR-2000
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2000WO-US032678.
2000WG-US034956.
2001WG-US034956.
2001WG-US006520.
2001WG-US009552.
2001WG-US009552.
2001WG-US009554280.
2001WG-US017092.
2001WG-US017092.
2001WG-US017092.
2001WG-US017092.
2001WG-US017092.
2001WG-US017096.
2001WG-US017096.
2001WG-US017800.
2001WG-US017800.
2001WG-US017800.
2001WG-US017800.
2001WG-US017800.
2001WG-US017800.
2001WG-US01780.

2000WO-US015264. 2000WO-US020710. 2000WO-US023328. 2000US-00709238. 2000US-00723749.

2000WO-US014941.

98US-0079666P.
98US-0079668P.
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98US-0079782P.
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98US-00106437368.
98US-00218517.
99US-00218517.
99US-0031832.
99US-0031832.
99US-0031832.
99US-0031832.
99US-0031831.

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RESULT 911
ABZ59177/c
ID ABZ591
XX ABZ591
XX ABZ591
XX ABZ591
XX CABZ591
XX G-prot
KW G-prot
KW TGR158
KW TGR158
KW Antico
KW Antico
XX Immuno
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cc polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful in PRO polypeptide detection methods. The PRO polypeptide or an antibody against it is useful for modulating a biological activity of a cell. The PRO polypeptide or an antibody against it is useful for modulating a biological activity of a cell. The PRO polypeptide or an cell. The PRO polypeptide or an cell. The PRO polypeptide is useful in industrial applications including pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO polypeptide is useful in industrial applications including collections of the PRO polypeptide is useful as a thrombolytic agent, interferon, cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS, amyotrophic lateral sclerosis; inflammatory disease e.g. asthma, archaemia, includegenerative disease e.g. Alzheimer's disease, cardiovascular disease e.g. Alzheimer's disease, cardiovascular disease e.g. hypertension and myocardial ischaemia; kidney disease e.g. renal failure and componential ischaemia; kidney disease e.g. spatric ulcer and inflammatory bowel disease; reproductive disporders e.g. gastric ulcer and inflammatory bowel disease, reproductive disporders e.g. premature labour and polypeptide associated oligomucleotide of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format directly from USPTO at sequence associated oligomechaemia; and the conditions of the printed specification but was obtained in electronic format directly from USPTO at sequence.
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Best Local S
Matches 17
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Perrara N, Pi
Goddard A, Go
Kljavin IJ, I
Stewart TA, T
                                                                                                                                                                                                                                                               G-protein coupled receptor; GPCR; TGR2; TGR38; TGR118; TGR164; TGR343; TGR358; antiasthmatic; neuroprotective; cerebroprotective; nephrotropi anticonvulsant; hypotensive; hepatotropic; dermatological; human; immunosuppressive; antiinflammatory; RT-PCR; primer; ss.
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                                                                   16-JAN-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                          Human TGR118 DNA expression analysing RT-PCR forward primer.
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                                                                                                                                                                                                                                                            immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5196 TCAGCGTGGGAGGCCACGTG 5215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAGTGTGAAAGGCCACGTG 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AJ, Baker KP, L, Pilvaroff B, Pong S, Grimaldi JC, Godowski PJ, Grimaldi JC, Kuo SS, Napier MA, Pan Nuo SN, Williams PM, '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  relates to an isolated secreted and transmembrane
designated as PRO polypeptide. The PRO polypeptide is useful
mride detection methods. The PRO polypeptide is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.3%;
85.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 C; 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Botstein D, Desnoyers L,
Fong S, Gao W, Gerber H,
Grimaldi JC, Gurney AL, I
der MA, Pan J, Paoni NF,
lliams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G; 5 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 15.2;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 U;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Roy MA,
                                                                                                                                                                                                                                                                                                                            nephrotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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01-JUL-2002; 2002WO-US020860.

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ARSSULT 912
ARS92749/C
ID ABX9277
XX
ARS9277
XX
ARS9277
XX
DR Human;
XW Human;
XW Immune
XW Gardia
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03-NOV-1997;
13-NOV-1997;
21-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention provides new G-protein coupled receptor (GPCR) polypeptides designated TGR2, TGR38, TGR118, TGR164, TGR343 and TGR358 and encoding polymucleotides. The polypeptides can be expressed by standard DNA recombination methodology. The polypeptides are useful for screening or identifying modulators of GPCR or signal transduction. The modulators of signal transduction are useful for treating or preventing TGR-associated disorders, e.g. asthma, multiple sclerosis or kidney disease. The polypeptides are useful as targets for diagnosing or treating e.g. epilepsy, stroke, neurodegeneration, hypogonadism, hyperprolactinemia, asymptomatic urinary abnormalities, hypertension, nephrolithiasis, cirrhosis, lesions, jaundice, psooriasis, hupus exythematosus, or acute inflammatory dermatoses. Sequences ABZ59173-184 represent RT-PCR primers used for analysing the expression of the various TGR polypeptides in
                                                                                                                                                                                                                                                                    genetic disorder; cytostatic; antidiabetic; antiinflammatory; antiatthritic; anti-tumour; vulnerary.
                                                                                                                                                                                                                                                                                                                               Human; PRO polypeptide; secreted and transmembrane protein; immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia; cardiac insufficiency; nervous system disorder; kidney disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New G-protein coupled receptor polypeptides designated TGR2, TGR38, TGR118, TGR164, TGR343 and TGR358, useful as targets for screening for treating or preventing e.g. asthma, multiple sclerosis, stroke
                                                                      26-MAY-1981;
                                                                                                             16-OCT-2001;
                                                                                                                                                 14-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                        Human PRO DNA PCR primer SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                              20-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABX92749 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example; Page 56; 74pp;
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                                                       17-0CT-1997
                                                                                                                                                                                   US2002169284-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1431 TGTGGAGGAGAATCGAGGAC 1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                             2001US-00978697.
 97US-0064249P.
97US-0065311P.
97US-0066364P.
                                                     81US-00267213.
97US-0062250P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.3%;
85.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
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Pred. No. 9.3e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
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11-MAR-1998
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11-MAR-1998
12-MAR-1998
20-MAR-1998
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20-MAR-1998
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10-MAR-1999
11-MAY-1999
11-MAR-1999
11-MAR-1999
11-MAR-1999
11-MAR-1999
11-MAR-2000
11-FEB-2000
                                                                                                                                  -2000;
-2000;
-2000;
98US-0077450P.
98US-0077632P.
98US-0077632P.
98US-0077649P.
98US-0077649P.
98US-0077649P.
98US-0077649P.
98US-007804P.
98US-007804P.
98US-007804P.
98US-007804P.
98US-007804P.
98US-007804P.
98US-007804P.
98US-007983P.
98US-0079664P.
98US-0079664P.
98US-0079664P.
98US-0079664P.
98US-00184716.
98US-00184716.
98US-00184716.
98US-00186978.
98US-00186978.
98US-00186978.
99US-0038648.
99US-0038648.
99US-0038648.
99US-0038648.
99US-0038648.
99US-003865.
99US-0038648.
99US-0038648.
99US-0038648.
99US-0038648.
99US-0038651.
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99US-0038651.
99US-003865.
99US-0038651.
99US-0038651.
99US-003865.
99US-0038651.
99US-00386520.
90US-00865420.
90US-008654280.
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RESULT 913
ABX79181
ID ABX791
XX
AC ABX791
XX
DT 15-APF
XX
DT 15-APF
XX
DE Thio-T
XX
EW Nanopa
KW herpse
KW Epstei

(first

ABX79181

standard,

DNA;

20

0

Thio-modified 15-APR-2003

20dA oligonucleotide.

Nanoparticle; ss; nucleic acid detection; viral disease; probe; human immunodeficiency virus infection; hepatitis virus infection; herpes virus infection; cytomegalovirus infection; forensic scienc Epstein-Barr virus infection; bacterial disease; gene therapy;

science;

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8
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                                                                                                                                                                                The present invention relates to the isolation of novel human PRO CC polypeptides, and the polynucleotide sequences encoding them. The PRO CC polypeptides are secreted and transmembrane proteins. The PRO CC polypeptides are useful for detecting other PRO polypeptides, for linking CC bioactive molecules to cells expressing PRO polypeptides, for modulating CC biological activities of cells expressing PRO polypeptides, and for for contentifying agonists or antagonists. The bioactive molecule maybe a CC toxin, radiolabel or antibody, and causes apoptosis or death of the cell. The PRO polypeptides are useful for treating immune disorders, diabetes are contention of the content and polypeptides are useful for treating immune disorders, diabetes CC or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system CC tumours, and wound healing. The polypuncleotide sequences encoding PRO CC polypeptides are useful as hybridisation probes, in chromosome and gene CC mapping, in the generation of antisense RNA and DNA, in the preparation CC animals, for the generation analysis of individuals with genetic disorders, CC and in gene therapy. The present sequence represents a PCR primer used in the examples of the present invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site
                                                               Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ashkenazi A,
Ferrara N, 1
Goddard A, (
Kljavin IJ,
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAY-2001;
01-JUN-2001;
01-JUN-2001;
05-JUN-2001;
14-JUN-2001;
19-JUN-2001;
20-JUN-2001;
29-JUN-2001;
09-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel secreted and transmembrane polypeptides and polynucleotides encoding them useful for treating cancer, kidney diseases, bone, cartilage disorders and immune deficiencies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI;
                                                                                                                                    Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 114; Page 192; 459pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GETH )
                                                                                                                                                                       seqdata.uspto.gov/psipsDIDEntry.html
                  5196 TCAGCGTGGGAGGCCACGTG 5215
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20
                                                                 17;
                                                                                 0.3%;
Similarity 85.0%;
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TCAGTGTGAAAGGCCACGTG 1
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Filvaroff E,
Godowski PJ, (
, Kuo SS, Napi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001WO-US017092.

2001US-00872035.

2001US-US017800.

2001US-00874503.

2001US-00886343.

2001US-00886343.

2001WO-US019692.

2001WO-US019692.

2001WO-US0217456.

2001WO-US0217458.
                                                                                                                                    BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KP, Botstein D, Desnoyers L, Eaton D;
f E, Fong S, Gao W, Gerber H, Gerrisen ME;
PJ, Grimaldi JC, Gurney AL, Hillan KJ;
Napler MA, Pan J, Paoni NF, Roy MA, Shelt,
Williams PM, Wood WI;
                                                                   0;
                                                                                   Score 15.2;
Pred. No. 9.
                                                                     Mismatches
                                                                                   9.3e+02
                                                                                                       BB
                                                                                                   Length
                                                                     Indels
                                                                                                       20;
                                                                     o,
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                                                                     Gaps
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RESULT 914
ACC47072/c
ID ACC47072 standard; DNA; 2:
XX
AC ACC47072;
XX
XX
CT ACC47072;
XX
XX
CT O5-JUN-2003 (first entry)
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                                                                                                                                                                                                                                                                                                                문
                                                                                                                                                                                                                                                                                                                                           CC The invention relates to detecting a nucleic acid (NA) having at least 2 cc portions, comprises providing a type of nanoparticles (NP) having CC attached to oligonucleotides (O) ((O) on each NP has a sequence of complementary to sequence of at least 2 portions of NA), contacting NA cc and NP to allow hybridisation of (O) on NP with 2 or more portions of NA, CC and observing a detectable change brought about by hybridisation of (O) con NP with NA. The nanoparticle is useful for separating a selected cc nucleic acid having at least 2 portions, from other nucleic acids, and cf or detecting nucleic acids having at least 2 portions. The method of CC using NP is useful for detecting any type of nucleic acids which may be useful for disease and in sequencing of nucleic acids for CC used for disgnosis of disease and in sequencing of nucleic acids for CC disgnosis and/or monitoring of viral diseases (human immunodeficiency CC virus), bepatitis virus, herpes virus, cytomegalovirus and Epstein-Barr CC virus), beattrial diseases, sexually transmitted diseases, inherited CC disorders, in forensics, in DNA sequencing, for paternity testing, for CC cell line authentication and for monitoring gene therapy. The method is useful in research and analytical laboratories in DNA sequencing and in the field to detect the presence of specific pathogens. Detecting nucleic acids based on observing a colour change with the naked eye is cheap, CC fast, simple and robust, and do not require specialised expensive cquipment. The present sequence is a nanoparticle (e.g. gold particles) cabelled probe used to demonstrate the method of the invention
                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                         Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Detecting nucleic acids having at least 2 portions comprises use of nanoparticles which have oligonucleotides attached to them that are complementary to portions of the nucleic acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-JUN-1999;
26-APR-2000;
                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-198491/19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mirkin CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-OCT-2001; 2001US-00976577.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sexually transmitted disease; inherited disorder; DNA sequencing; paternity testing; cell line authentication.
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                                                                                                                                                                                                      5393 AAAAAAATACAAAAAAAGAAA 5412
                                                                                                                                                                                                                                          1 Similarity
                                                                                                                                                                   1 AAAAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                                                                                                                20
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99US-00344667;
2000US-0200161P;
2000US-00603830.
                                                                                                                                                                                                                                                                                                                B₽;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Letsinger RL,
                                                                                                                                                                                                                                          Conservative
   (first entry)
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97WO-US012783.
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                                                                                                                                                                                                                                                                                                              Α,
                                                                                                                                                                                                                                                         0.3%;
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                                                                            ВP
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Pred. No. 9.3e+02
                                                                                                                                                                                                                                                                                                                G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                            Mismatches
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TGCCTGCCTGATACCCTCAC 477

Matches Query Match Best Local :

l Similarity 17; Conserv

Conservative

0,

0.3%;

Score 15.2; Pred. No. 9 Mismatches

9.3e+02 DB 1;

Length 20 Indels

0,

Gaps

0

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The present invention describes a compound (I) comprising 8-50 cnucleobases which is targeted to a 5 untranslated region (UTR), coding, CC introduced which is targeted to a 5 untranslated region (UTR), coding, CC if the compound specifically hybridises with a first proup IIA (synovial), where the compound specifically hybridises with cardinary and inhibits the expression of phospholipase A2, group IIA (synovial).

CC Also described: (1) a composition comprising the compound and a carrier cor diluent, (2) a method of inhibiting the expression of phospholipase CC A2, group IIA in cells or tissues; and (3) a method of treating an animal correct correct (1) has antiinflammatory, antidiabetic, cytostatic and CC (synovial). (I) has antiinflammatory, antidiabetic, cytostatic and CC antipsoriatic activities, and can be used in vaccines and in gene compound (I) cam be used for preparing a composition for treating or preventing inflammation, cancer, psoriasis or diabetes. The present sequence represents a mouse phospholipase A2 group IIA (synovial) content of the compound (1) can be used for preparing a composition for content sequence represents a mouse phospholipase A2 group IIA (synovial) content of the compound (1) can be used for preparing a composition for content sequence represents a mouse phospholipase A2 group IIA (synovial) contents of the compound (1) can be used for preparing a composition for composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the compound (1) can be used for preparing a composition for contents of the contents of the compound (1) can be used for preparing a composition (1) can be use
Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New compound that hybridizes with and inhibits the expression of Phospholipase A2, group IIA, useful for preparing a composition treating or preventing inflammation, cancer, psoriasis or diabet
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Phospholipase A2 group IIA; synovial; antisense modulation; inflammation; phospholipase A2 group IIA inhibitor; phosphorothicate; antiinflammatory; antidiabetic; cytostatic; antipsoriatic; vaccine; gene therapy; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse
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BP; 7
                                                                                             the present
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*tag= c
/mod_base= OTHER
/note= "2'-O-methoxyethyl (2'-MOE) gapmer"
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A; 3 C; 9 G; 1 T; 0 U; 0 Other;
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                                                                                                      invention
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AC ACA66490 s

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AC ACA66490 s

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AC ACA66490 s

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XW

Human; 88;
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Human; 88;
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Infertilit
XW

renal disc
XX

Infertilit
XW

renal disc
XX

INFORMATION
INFORMATIO
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13-NOV-1997
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11-NAR-1998
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12-MAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-OCT-2001;
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98US-00778910P

98US-0078910P

98US-0078936P

98US-0079656P

98US-00797664P

98US-00797664P

98US-0079788P

98US-0079788P

98US-0079788P

98US-0079788P

98US-00168978

98US-0018978

98US-0018978

98US-002184291

99US-0031183

99US-0031183

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16-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1999
30-DEC-1900
06-JAN-2000
06-JAN-2000
11-PEB-2000
11-PEB-2000
11-PAA-2000
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99WO-US031243.
99WO-US031274.
2000WO-US000277.
2000WO-US0003565.
2000WO-US005841.
2000WO-US005841.
2000WO-US005841.
2000WO-US0065841.
2000WO-US0065841.
2000WO-US0065841.
2000WO-US0065841.
2000WO-US013705.
2000WO-US014942.
2000WO-US014941.
2000WO-US014941.
2000WO-US012564.
2000WO-US012564.
2000WO-US0126710.
2000WO-US0126710.
2000WO-US0126710.
2000WO-US012714.
2000WO-US030871.
2000WO-US030871.
2000WO-US030871.
2000US-00703749.
2001US-00816720.
2001US-0085420.
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GENENTECH INC.

Ashkenazi A.
Perrara N, b.
Iddard A, Goo.
Ivin IJ, Kuo AJ, Baker KP, Filvaroff E, Godowski PJ, 「, Kuo SS, Nap , Tumas D, Wi Napier MA, Pa Williams PM, Botstein D, Desnoyers L, Eaton DL; Fong S, Gao W, Gerber H, Gerriten Grimaldi JC, Gurney AL, Hillan KJ; ier MA, Pan J, Paoni NF, Roy MA, Sh lliams PM, Wood WI; Shelton DL; ă

WPI; 2003-341189/32.

New genes and secreted and tra PRO1559), useful for treating atherosclerosis, infertility, sclerosis in mammals. transmembrane polypeptides (e.g. PRO337 ing or diagnosing e.g. cancers, ty, stroke, encephalitis, hepatitis or m or multiple õ

Example 114; Page 193; 460pp; English.

The invention relates to a new isolated nucleic acid molecule comprises a sequence with at least 80% identity to: (a) a nucleotide encoding any of 94 PRO polypeptides whose sequences are fully defined in the specification; or (b) any of 94 nucleotide sequences fully defined in the specification; or the full length coding sequence of any these 94 nucleotide sequences. Also included are an isolated PRO polypeptide scoring at least 80% positives when compared to any of the PRO polypeptide sequences cited above (or an isolated PRO polypeptide having at least 80% amino acid sequence identity to: (a) an amino acid sequence encoded by the nucleotide deposited with ATCC numbers listed in the specification; (b) the PRO polypeptide, lacking its associated signal peptide; or (c) an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide).

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cc acid molecule, a host cell comprising the vector (and producing a PRO polypeptide), a chimaeric molecule comprising the PRO polypeptide fused cc to a heterologous amino acid sequence and an anti-PRO antibody. The PRO colypeptides or polymuclectides are useful as pharmaceuticals, coloreactors or bioreactors. These are particularly useful for detecting or treating e.g. malignancies or cancers (e.g. ovarian cancer, colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease, renal disease, arthritis, inflammatory disease, inflammatory disease, renal disease, arthritis, immune-mediated alopecia, inflammatory disease, renal disease, arthritis, immune-mediated alopecia, colorecte, encephalitis, hepatitis, or multiple sclerosis in mammals. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome classification. The PRO genes are useful as hybridiation probes, or for size the properties of human cDNA, genomic DNA or mRNA. The PRO genes may calso be used in gene therapy, particularly for replacing a defective gene. The present sequence is a TagMan PCR primer used in a Nortern blot experiment to detect PRO sequences in certain cancer cell lines
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Best Local Simi
Matches 17;
                                                                                                                                                 Mirkin CA,
Taton TA;
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                                                                                                                                                                                                                                                                                                                                          29-JUL-1996;
21-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
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                                                                                                                                                                                                                (NANO-) NANOSPHERE INC.
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97WO-US012783.
99US-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
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This invention describes a novel method of detecting nucleic acid having at:least:two portions. The method involves providing nanoparticles can tatached to oligonucleotides, where the oligonucleotide on each can nanoparticle have a sequence complementary to a sequence of at least two portions of nucleic acid, contacting nucleic acid and nanoparticle to callow hybridisation of the oligonucleotide on the nanoparticle with two or nucleic acid. The method is useful for separating a detectable change complete acid. The method is useful for separating a selected nucleic acid having at least two portions. The method is useful for detecting any type of nucleic acids. The method is useful for detecting any type of nucleic acids. Preferably, the method is useful for detecting any type of nucleic acids having at least two portions. The method is useful for detecting any type of nucleic acids. Preferably, the method is useful for detecting any type of nucleic acids have not research of the numerodeficiency virus (HIV), hepatitis virus, concepts virus, cytomegalovirus and Epstein-Barr virus), bacterial concepts virus, cytomegalovirus and Epstein-Barr virus), bacterial concepts virus, and for monitoring gene therapy. The method is useful in research and analytical laboratories in DNA sequencing, in the field to detect the presence of specific pathogens. Detecting nucleic acids based on observing a colour change with the naked eye is cheap, fast, simple and couse not require specialised expensive equipment. ABX92123 concepts and analytical laboratories in DNA sequencing, in the field to and robust and does not require specialised expensive equipment. ABX92123 controlusion of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; Page 59; 130pp; English
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Best Matches Query Match Sequence 20 BP; 20 Local 5393 AAAAAAATACAAAAAAGAAA 5412 Similarity AAAAAAAAAAAAAAAAA 20 Conservative A; 0 C; 0 0.3%; 0; G; 0 T; Score 15.2; Pred. No. 9. Mismatches 0 U; 0 Other; 9.3e+02; DB 1; Length 20; Indels 0 Gaps

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RESULT 917 AAD52927 Human TTYH2 14-MAY-2003 AAD52927 standard; DNA; 2 gene intron H/exon 9 junction sequence (first entry) 20 BÞ

Human; tweety homologue 2; TTYH2; therapy; cancer; tumour; cytostatic; diagnostic marker; ds.

Homo sapiens.

intron /*tag= 11. .20 Location/Qualifiers /number= /*tag= b .10 ω

WO200292629-A1.

21-NOV-2002

14-MAY-2002; 2002WO-AU000591

14-MAY-2001; 2001AU-00004971.

(UYQU-) UNIV QUEENSLAND TECHNOLOGY

Detecting nucleic acids having at least two portions involves use of nanoparticles which have oligonucleotides attached to them that are complementary to portions of the nucleic acid sequence.

WPI;

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RESULT 918
AAL53968
ID AAL539
XX AAL539
XX AAL539
XX Detect
KW Single
XX Uniden
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XX UNA mU
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Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polynucleotide sequence. TTYH2 is useful for producing an antigen-binding molecule that is immuno-interactive with the polypeptide. The agent is useful for manufacturing a medicament for restoring a normal level and/or functional activity of TTYH2 expression in a patient, and for treating or preventing cancer or tumour. TTYH2 sequences may also be used to provide both drug targets and regulators to promote or inhibit one or more activities, and to provide diagnostic markers for cancers. The present sequence is human TTYH2 gene intron/exon immanifered to proper sequence is human TTYH2 gene intron/exon
                       The invention relates to a novel method for detecting a point mutation in a DNA strand. The novel method comprises hybridising a target DNA strand containing or suspected of containing a point mutation with a test nucleic acid strand complementary to the DNA strand to form a target DNA strand/test nucleic acid strand duplex, contacting the duplex with an RNase H, and determining whether the ribonucleotide residues within the
                                                                                                                                                                                                                                                                           duplex
                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-102506/09.
                                                                                                                                                                                                                                                                                                                                                                                                                         Dattagupta N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAR-2001; 2001US-00823634
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detecting;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DNA mutation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20
                                                                                                                                                                                                   Example
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                                                                                                                                                                                                                                                                      ing point mutation in DNA strand, mutation with test DNA strand to with RNase H and determining the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleotide
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                                                                                                                                                                                                 Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              point mutation; hybridising;
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Pred.
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  RNase
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No. 9.3e+02
                                                                                                                                                                                                                                                                         by hybridizing target DNA strand
form duplex, contacting the
cleavage of test strand by RNase
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  Ξ
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RESULT 91
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Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                    29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                           Detecting comprises them that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      detecting a point mutation in a DNA strand, where the point mutation detected is a single nucleotide polymorphism, preferably a polymorphism in a genome, e.g., a viral, bacterial, eukaryotic, ma or human genome. The method is useful to detect any nucleic acids any species of organisms such as Acintobacter, Bacillus, Candida, Enterococcus, Haemophilus, Mycobacterium and Streptococcus, and virals polymucleotide sequence represents a ribonucleotide relating mutation detecting method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              virus detection; human immunodeficiency virus; HIV; hepatit cytomegalovirus; Epstein-Barr virus; bacterial disease; DNA sexually transmitted disease; inherited disorder; forensic; paternity testing; cell line authentication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACD27255 standard;
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                                                                                                                                        nucleic acids having 2 portions e.g. for deta
use of nanoparticles which have oligonucleot:
are complementary to portions of the nucleic
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97WO-US012783.

99US-00240755.

99US-00344667.

2000US-0200161P.

2000US-00603830.
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                                                                                                                                                                                                                                                                                                            Letsinger
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/mod_base= OTHER
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Pred. No. 9.
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                                                                                                                                                                                                                                                                                                            RC,
                                                                                                                                                                                                                                                                                                               Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HIV; hepatitis; herpes; disease; DNA sequencing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
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                                                                                                                                                                   detecting disease,
leotides attached to
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                                                                                                                                                acid
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                                                                                                                                             sequence.
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This invention relates to a novel method for detecting a nucleic acid having 2 portions. The method comprises providing nanoparticles having oligonucleotides attached, where the oligonucleotide on each nanoparticle

Example 18; Page 43; 129pp;

English

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RESULT 920
ACD27125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC has a sequence complementary to a sequence of 2 portions of nucleic acid. The nucleic acid and nanoparticle are contacted to allow hybridisation of CC the oligonuclectide on the nanoparticle with two or more portions of CC nucleic acid and observing a detectable change brought about by the CC hybridisation. The method of the invention is useful for separating a CC selected nucleic acid having 2 portions, from other nucleic acids, and CC for detecting nucleic acids having 2 portions. The method of the CC invention is useful for detecting any type of nucleic acids which may be CC used for disgnosis of disease and in sequencing of nucleic acids (CC preferably, the method is useful for detecting nucleic acids for CC virus, hepatitis virus, hepatitis virus, hepatitis virus, hepatitis virus, hepatitis virus, hepatitis virus, for paternity testing, for CC virus, bacterial diseases, sexually transmitted diseases, in herited CC disorders, in forensics, in DNA sequencing, for paternity testing, for CC virus authorization, for monitoring gene therapy, etc. This method CC involves detecting nucleic acids based on observing a colour change with the naked eye so is cheap, fast, simple and robust, and does not require specialised expensive equipment. The present sequence represents a thiol CC invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                   29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
                                                     Mirkin CA,
Taton TA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nanotechnology
                                                                                                                                                                                                                 25-JUN-1999;
26-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US2002164605-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nanotechnology; nucleic acid detection; nanoparticle; ss; forensic; DNA sequencing; paternity testing; cell line authentication.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-OCT-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACD27125 standard, DNA, 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 20 BP; 20 A; 0
                                                                                                                                                                                                                                                                                                                                                                             28-SEP-2001; 2001US-00966312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified_base
WPI; 2003-247253/24
                                                                                                                                                                                        26-JUN-2000;
                                                                                                                                      (NANO-) NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5393 AAAAAAATACAAAAAAGAAA 5412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                  96US-0031809P.
97WO-US012783.
99US-00240755.
99US-00344667.
2000US-0200161P.
2000US-00603830.
                                                                              Letsinger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleic acid detection method oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          'mod_base= OTHER
'note= "OTHER= Thiol modified" "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.3%;
85.0%;
                                                                           RL,
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()
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                                                                                Mucic RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.2; DB 1; Length 20; Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       G; 0 T; 0 U; 0 Other;
                                                                                Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                Blghanian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>,</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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1 AAAAAAAAAAAAAAAAAA 20

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FFFFX8X5555555555555555555555555555555
                                                                                                                                                                                                    Detecting nucleic acid having two portions, by providing nanoparticles having oligonucleotides attached to it, contacting nucleic acid and nanoparticles to allow hybridization, and observing detectable change, useful in forensics.
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Example 18; Page 44; 130pp; English.

Requences having two portions. The method involves providing contacting the portions and particles having oligonucleotides attached to them, which has a contacting nucleic acid and nanoparticles, to allow hybridisation of contacting nucleic acid and nanoparticles, to allow hybridisation of contacting nucleic acid and nanoparticles, to allow hybridisation of contacting nucleic acid and nanoparticles, to allow hybridisation of contacting nucleic acid and nanoparticles, to allow hybridisation of contacting two or more portions of nucleic acid, and observing concleic acids (from a biological source) having at least two portions, such as viral RNA or DNA, bacterial or fungal DNA, a gene associated with a disease, synthetic, or structurally-modified natural or synthetic RNA cor DNA, or a product of a polymerase chain reaction amplification.

CC Nanoparticles and nanoparticle-oligonucleotide conjugates of the nucleic acid having two portions from other nucleic acids. The method of the invention is useful in forensics, DNA sequencing, for paternity casting, cell line authentication, and monitoring gene therapy. Diagnostic assays employing the nanoparticle-oligonucleotide conjugates of the invention improve the sensitivity of the nucleic acid detection assay. The present sequence represents a thiol modified oligonucleotide This invention relates to a novel method for detecting sequence used to demonstrate the method of the invention nucleic acid

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ঠ
                                   Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                    Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
5393 AAAAAAATACAAAAAAAGAAA 5412
|||||||| | |||||| |||
                                    0.3%;
ilarity 85.0%;
Conservative
                                    0; Mismatches
                                                Score 15.2;
Pred. No. 9.
                                                DB 1;
                                                            Length
                                       Indels
                                                               20
                                       0
                                       Gaps
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0

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RESULT 921
ACD27385
ID ACD273
XX
AC ACD273
XX
DT 15-OCT
XX
Nanote
XX
Nanopa
KW Nanopa
KW Pathog
XX
Synthe
XX
Synthe
XX
PM Nod1fi
FT mod1fi
FT mod1fi
FT 20-DE(
XX
PN US200/
XX
29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                 28-SEP-2001; 2001US-00966491.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pathogen detection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nanoparticle; ss; nucleic acid detection; DNA sequencing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nanotechnology nucleic acid detection method associated #54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACD27385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACD27385 standard; DNA; 20
                                                                                                                                                                                                                                                                                                                                                                05-DEC-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                              US2002182611-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-OCT-2003
    99US-00344667.
2000US-0200161P.
2000US-00603830.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                        96US-0031809P.
97WO-US012783.
99US-00240755.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /*tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note= "OTHER= Thiol modified"
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RESULT 922
ACD27190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention relates to a novel method for detecting a nucleic acid by CC contacting a nucleic acid with at least two types of nanoparticles having CC oligonuclectides attached, allowing hybridisation of the oligonuclectides CC on the nanoparticles, and observing a detectable change. The CC oligonuclectides on each nanoparticle have a sequence complementary to CC its respective portion of the sequence of the nucleic acid to be CC detected. The method of the invention may be used for the detection of a CC nucleic acid used in, e.g. research and analytical laboratories in DNA CC sequencing, in the field to detect the presence of specific pathogens, in CC the doctor's office for quick identification of an infection to assist in CC prescribing a drug for treatment, and in homes and health centres for CC nucleic acids based on observing a colour change with the naked eye. This CC method is cheap, fast, simple, robust and does not require specialised or CC expensive equipment. The present sequence represents a thiol modified coligonuclectide sequence used to demonstrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 17
29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
26-APR-2000;
                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                            Nanoparticle;
                                                                                                                                                                                                                                                                                                                        Nanotechnology nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                   ACD27190;
                                                                                                                                                                                                                                                                                                                                                                                                            ACD27190 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 18; Page 43; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Detection of nucleic acid for, e.g. research in deoxyribonucleic acid sequencing, involves with nanoparticles having oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-596264/56.
                                                                                       12-OCT-2001;
                                                                                                                                               US2002182613-A1
                                                                                                                                                                                                                     modified_base
                                                                                                                                                                                                                                                                                                                                                      15-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Taton TA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (NANO-) NANOSPHERE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AAAAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Letsinger RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
96US-0031809P.
97WO-US012783.
99US-00240755.
99US-00344667.
2000US-0200161P.
                                                                                      2001US-00976971.
                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                           ss; nucleic acid detection; DNA sequencing
                                                                                                                                                                           /mod_ba
                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                         /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                              DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.3%;
                                                                                                                                                                                           base= OTHER
                                                                                                                                                                            "OTHER= Thiol modified"
                                                                                                                                                                                                                                                                                                                                                                                                              20
                                                                                                                                                                                                                                                                                                                                                                                                              BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mucic RC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                        detection method associated #54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15.2;
Pred. No. 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length .3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nnd analytical laboratories contacting nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Elghanian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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This invention relates to a novel method for detecting a nucleic acid by contacting nucleic acid with at least two types of nanoparticles having conjuganticles, allowing hybridisation of the oligonuclectides on the care nanoparticle, and observing a detectable change. The oligonuclectides on confidence of the sequence of the nucleic acid. The method of the invention may be cused for the detection of a nucleic acid used in, e.g. research and conjugate of specific pathogens, in the field to detect the presence of specific pathogens, in the doctor's office for quick conjugate of an infection to assist in prescribing a drug for treatment, and in homes and health centres for inexpensive first-line conserving a colour change with the naked eye are cheap, fast, simple, conserving a colour change with the naked eye are cheap, fast, simple, conserving a colour change with the naked eye are cheap, fast, simple, conserving a colour change with the naked eye are cheap.
Sequence 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detection of nucleic acid for, e.g. research and analytical laboratories in deoxyribonucleic acid sequencing, involves contacting nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-596265/56.
                                                                                                                                                                                                                                                                                                                                                                                                         Example 18; Page 43; 107pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mirkin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NANO-) NANOSPHERE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-JUN-2000; 2000US-00603830.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 nanoparticles having oligonucleotides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ξ,
  BP; 20
                                          the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Letsinger RL,
  A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mucic
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                                                                                                                                                                                  RESULT 923
                                                                                                                                                                                                                              Query Match
Best Local S
Matches 17
                                                                                                                              Nanotechnology
                                                                                                                 Nanotechnology; nucleic acid detection; nanofabrication; nanoprobe; ss
                                                                                                                                            15-OCT-2003
                                                                                                                                                        ACD27060
                                                                                                                                                                     ACD27060 standard;
                                                                                                                                                                                                             5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                     AAAAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                              Conservative
                                                                                                                                            (first
                                                                                                                               nucleic acid detection method oligonucleotide #54
                                                                                                                                                                     DNA;
                                                                                                                                            entry)
                                                                                                                                                                                                                                    0.3%;
                                                                                                                                                                     20
                                                                                                                                                                     ₽₽
                                                                                                                                                                                                                              ٥,
                                                                                                                                                                                                                                    Score 15.2;
Pred. No. 9.
                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                    .3e+02;
                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                               0,
                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                               0
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B

1; Length 20;

29-JUL-1996; 21-JUL-1997; 29-JAN-1999;

96US-0031809P. 97WO-US012783. 99US-00240755.

06-MAR-2003 US2003044805-A1

15-OCT-2001;

2001US-00981344

modified_base

Location/Qualifiers

/*tag= a
/mod_base= OTHER
/note= "OTHER= Thiol modified"

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RESULT 924
ACH00064
ID ACH000
XX ACH000
XX ACH000
XX ACH000
XX ACH000
XX ACH000
XX Nanote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  method comprises providing nanoparticles with oligonucleotides attached to them, which have a sequence complementary to a sequence of two portions of nucleic acid, contacting the nucleic acid and nanoparticles of the nucleic acid, and observing a detectable change brought about by the hybridisation. The nucleic acid to be detected must have at least two portions and the distances between these are chosen so that when the campoparticle-oligonucleotide conjugate binds the target sequence a complement of the invention is useful for detecting two or more nucleic acids (from a biological source) having at least two portions, such as viral RNA, bacterial or fungal DNA, a gene cassociated with a disease, synthetic, or structurally-modified natural cor synthetic RNA or DNA, or a product of a polymerase chain reaction amplification. Nanoparticle-oligonucleotide conjugates of the invention care useful for preparing a nanoprobe conjugate for detecting an analyte, and for detecting an uncleic acid bound to an electrode surface.

CC Nanoparticles and nanoparticle conjugates of the invention are useful for particles and nanoparticle conjugates of the invention are separating a selected nucleic acid having two particles acid detection methods and consecutive the sensitivity of nucleic acid detection methods and can be used to detect nucleic acids that are present in only small amounts in a sample. The invention also provides highly desirable nanoparticle-oligonucleotide conjugates. These conjugates are thell mother a thiol modified oligonucleotide sequence used to
                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mirkin CA,
Taton TA;
               Key
modified_base
                                                                                      Synthetic
                                                                                                                            Nanotechnology;
                                                                                                                                                                    Nanotechnology nucleic acid detection method oligonucleotide #54.
                                                                                                                                                                                                                   15-OCT-2003
                                                                                                                                                                                                                                                                                                   ACH00064 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 20 BP; 20 A; 0 C; 0 G; 0 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Detection of nucleic acid having -2 portions used to prepare biomaterials and in nanofabrication methods, comprises providing nanoparticles,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 18; Page 44; 130pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-APR-2000;
26-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence represents a thiol modified oligonucleotide sequence used demonstrate the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NANO-) NANOSPHERE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                 5393 AAAAAAATACAAAAAAGAAA 5412
                                                                                                                                                                                                                                                                                                                                                                                                                _
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                             AAAAAAAAAAAAAAAA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nucleic acid and nanoparticles, and observing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Letsinger RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-00344667.
2000US-0200161P.
2000US-00603830.
                                                                                                                                                                                                                (first entry)
                                                                                                                              nucleic acid detection; nanofabrication; nanoprobe; 88.
                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                slates to a novel method for detecting nucleic providing nanoparticles with oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mucic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 15.2; DB 1;
Pred. No. 9.3e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Storhoff JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3; Indels
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ACH0311 ID ACI XX

ACH03110 standard; DNA; 20

ВP

RESULT 925

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5393 AAAAAAATACAAAAAGAAA 5412

Conservative

0; Mismatches

Indels

0

Gaps

0;

Matches

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CC to allow hybridisation of the oligonucleotides with two or more portions of the nucleic acid, and observing a detectable change brought about by CC the hybridisation. The nucleic acid to be detected must have at least two CC portions and the distrances between these are chosen so that when the CC nanoparticle-oligonucleotide conjugate binds the target sequence a CC detecting two or more nucleic acids (from a biological source) having at CC least two portions, such as viral RNA, bacterial or fungal DNA, a gene CC associated with a disease, synthetic, or structurally-modified natural CC or synthetic RNA or DNA, or a product of a polymerase chain reaction CC amplification. Nanoparticle-oligonucleotide conjugates of the invention CC and for detecting a nucleic acid bound to an electrode surface.

CC Nanoparticles and nanoparticle conjugates of the invention are useful for separating a selected mucleic acid having two CC portions from other nucleic acids. Diagnostic assays employing CC nanoparticle-oligonucleotide conjugates employing CC nanoparticle-oligonucleotide conjugates of the sensitivity of CC nucleic acid detection methods and can be used to detect nucleic acids conjugates are present in only small amounts in a sample. The invention also provides highly desirable nanoparticle-oligonucleotide conjugates. These CC conjugates are stable with tailored hybridisation abilities. The present CC conjugates are stable with tailored hybridisation abilities. The present consideration acide oligonucleotide sequence used to
Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-1996;
21-JUL-1997;
29-JAN-1999;
25-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This invention relates to a novel method for detecting nucleic acids. The method comprises providing nanoparticles with oligonucleotides attached to them, which have a sequence complementary to a sequence of two portions of nucleic acid, contacting the nucleic acid and nanoparticles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Detection of nucleic acid having at least two portions, by contacting nucleic acid and nanoparticles under conditions, which allows hybridization of oligonucleotides on nanoparticles with at least two
                                                                                                         Sequence 20 BP; 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 18; Page 44; 108pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-634854/60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-APR-2000;
26-JUN-2000;
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                                                                                                                                                                                                                     sequence represents a thiol modified
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   Similarity
                                                                                                                                                                                  the method of the invention
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2000US-00603830
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97WO-US012783.
99US-00240755.
99US-00344667.
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/note= "OTHER= Thiol modified"
                                                                                                            A; 0 C; 0 G; 0 T; 0 U; 0 Other;
85.0%;
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Score 15.2; DB 1; Length 20; Pred. No. 9.3e+02;
                                                                                                                                                                                                                     oligonucleotide sequence
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RESULT 926
ACD99851
ID ACD998
XX ACD998
AC ACD998
XX Z5-SEE
XX Z5-SEE
XX Immunc
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XX Immunc
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XX inflan
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Best Local S
Matches 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory disease, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease. This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 20 BP; 2 A; 8 C; 3 G; 7 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 29; 229pp; English.
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                  US2003050268-A1
                                                  Synthetic
                                                                              Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antilicer; gene therapy; vaccine; nor-allergic inflammatory disease; psoriasis; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
                                                                                            antiulcer; gene the psoriasis; eczema;
                                                                                                                                                                                                                                                           ACD99851 standard;
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                                                                                                                                                             Immunostimulatory nucleic acid #537.
                                                                                                                                                                                              25-SEP-2003
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                         AGGAATAGGAGGGACATGGA 5148
                                                                                                                                                                                                                                                                                                                                           AGGATCAGGAGCGACATGGA 1
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                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                            DNA;
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Pred. No. 9.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 20
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RESULT 927
ACD99847/C
ID ACD998
XX Immuno
XX I
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Matches 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Treating non-allergic inflammatory diseases, such as psoriasis, ecz allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
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                                                                                      WPI; 2003-521815/49.
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                                                                                                                                                                                                  (KRIE/) KRIEG A M. (BERG/) BERG D J.
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                                                                                                                                         Berg DJ;
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Pred. No. 9.
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Treating non-allergic inflammatory allergic contact dermatitis, latex

diseases, s dermatitis

such as psoriasis,
s or inflammatory b

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RESULT 928
ACD99532/c
ID ACD995
XX ACD995
XX ACD995
XX Immuno
XX I
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                                                            The invention describes a method of treating non-allergic inflammatory disease comprising administering to a subject having or at risk of developing a non-allergic inflammatory disease an immunostimulatory nucleic acid for prevention or treatment of the disease. The method is useful for treating non-allergic inflammatory disease, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease This sequence represents an immunostimulatory nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                  Treating non-allergic inflammatory diseases, such as psoriasis, eczema, allergic contact dermatitis, latex dermatitis or inflammatory bowel disease by administering an immunostimulatory nucleic acid.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACD99532 standard; DNA; 20 BP
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                                                                                                                                                                                                                                                                                                                            Disclosure; Page 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-MAR-2001; 2001US-0279642P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-MAR-2002; 2002US-00112653.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Immunostimulatory; antiinflammatory; dermatological; antipsoriatic; antiulcer; gene therapy; vaccine; non-allergic inflammatory disease; psoriasia; eczema; allergic contact dermatitis; latex dermatitis; inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.
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27-MAR-1998
31-MAR-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                     17-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                          16-OCT-2001;
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98US-0077450P.
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98US-0077641P.
98US-0077649P.
98US-0078936P

98US-0079294P

98US-0079294P

98US-0079663P

98US-0079664P

98US-0079664P

98US-0079786P

98US-0079728P

98US-0079728P

98US-0079923P

98US-0080105P

98US-0080165P

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Pred. No. 9
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arthritis,
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Ferrara N, 11
Goddard A, (13
Kljavin IJ,
Stewart TA,
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26-JUL-1999
26-JUL-1999
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30-NOV-1999
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30-MAR-2000
11-FEB-2000
11-FEB-2000
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11-MAR-2000
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30-MAR-2000
22-MAR-2000
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22-MAR-2000
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                                                                                                                                  The invention describes an isolated secreted and transmembrane (PRO) polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993 polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are useful for detecting PRO1559 polypeptide in a sample, and PRO539 is useful for linking a bioactive molecule to a cell expressing a PRO337 is useful for linking a bioactive molecule to a cell expressing a PRO493 polypeptide, and PRO337 is useful for linking a bioactive molecule to a cell expressing a PRO493 polypeptide. PRO559 is useful for linking a bioactive molecule to a cell expressing a PRO493 polypeptide, and PRO735, PRO700 and PRO739 polypeptide, and PRO735, PRO700 and PRO739
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17; Conserv
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                                                                                                                                                                                                                                                                                                                                                                  ated PRO polypeptides for example extracellular, secreted and bound proteins, useful for modulating the biological activities and for treating, for example diabetes, cancer, rheumatoid s, and hearing loss.
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N, Filvaroff E,
A, Godowski PJ,
IJ, Kuo SS, Napi
TA, Tumas D, Wil
TCAGCGTGGGAGGCCACGTG 5215
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99US-0145680P.
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99WO-US031274.
2000WO-US0002277.
2000WO-US0002376.
2000WO-US005841.
2000WO-US005856.
2001WO-US014942.
2000WO-US014942.
2001WO-US014942.
2001WO-US01496.
2001WO-US016582.
2001WO-US017809.
2001WO-US01786.
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2001WO-US021786.
2001WO-US021786.
2001US-00918585.
                                                                      Conservative
                                                                                    0.3%;
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B, Fong S, Gao W, Gerber H, Gerritsen ME;
FD, Grimaldi JC, Gurney AL, Hillan KJ;
Napier MA, Pan J, Paoni NF, Roy MA, Shelt Williams PM, Wood WI;
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